Service Manual



and Technical Guide

Telephone Equipment

KX-T9310DM

(for Denmark)

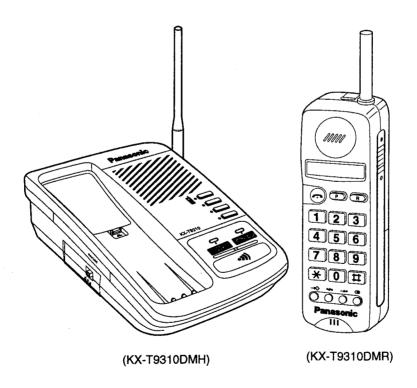
WIRELESS PHONE

Please use this manual with the original Service Manual for model KX-T9300DM order No. KM49602026C2. This Service Manual indicates the main differences between: Original KX-T9300DM and KX-T9310DM.

№ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians.

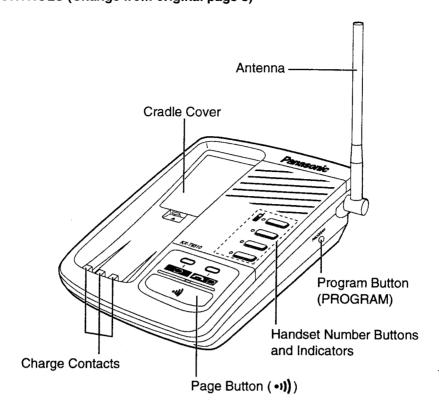
Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



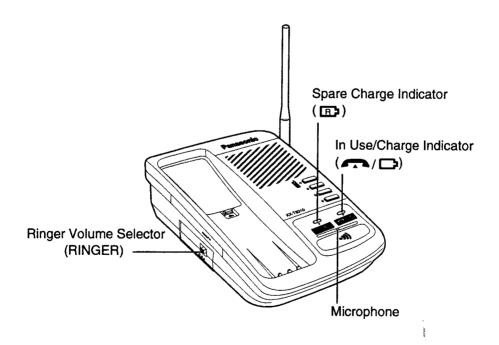
Panasonic

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■ LOCATION OF CONTROLS (Change from original page 3)

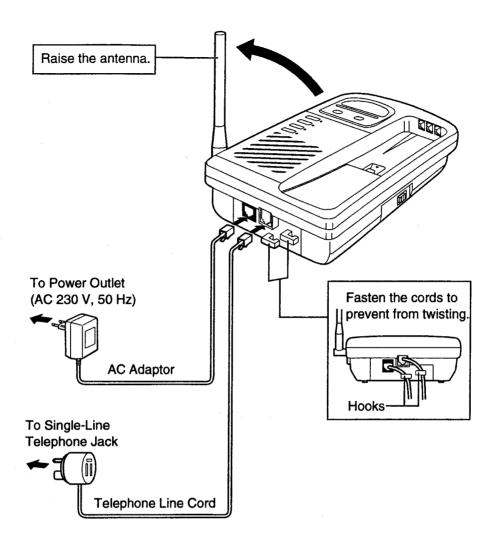


(Model KX-T9310DM)



(Model KX-T9310DM)

ECONNECTION (Change from original page 5)



(Model KX-T9310DM)

MADJUSTMENTS (KX-T9310DMR) (Change from original page 16)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the SPK terminals (TP5) on the portable handset.
- 3. Connect 3.9 V to the battery terminals.
- 4. After pressing $\boxed{1}$, $\boxed{9}$, $\boxed{\times}$ keys at the same time, turn Power SW on. After that, press \boxed{P} key (Test mode on standby).
- 5. Press key (Test Mode on CH1 Talk).

Note: When selecting optional channel, press 2 3 keys after pressing P key of adjustment preparation 4 item (ex. CH23). Next press key (Test Mode on CH23 Talk)

If your unit have below symptom, adjust for each item as table of adjustment on pages 16 and 17.

Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (C), (F) and (G).
Speaker level of portable handset is unstable.	Adjust the adjustment item (D).
Transmission sound for receiver is unstable.	Adjust the adjustment item (E).
The operating distance between base unit and portable handset is loss than normall.	Adjust the adjustment items (H).

Item	Adjustment Item	Procedure
(A)	RX VCO Voltage Check	Place the voltmeter probe at TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.
(B)	TX VCO Voltage Check	Place the voltmeter probe at TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBµVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.
(D)	Receiving Level Adjustment	Connect a signal generator (959.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation, +60 dB μ Vemf output level) to the RF unit TPA. Adjust VR3 so that the speaker output TP5 is ~18.0 dBm \pm 0.5 dB (85 mV \pm 1.7 mV).
(E)	Modulation Sensitivity Adjustment	Connect a modulation meter and signal generator [959.0125 MHz, 60 dB μ Vemf (1 mV, $-$ 53 dBm), unmodulation] in TPA and GND. Connect an AF oscillator [f=1 kHz $-$ 36 dBm (12 mV) level] to the MIC terminals (TP4) and V _{ss} on the portable handset Adjust VR4 to set the modulation to 3.1 \pm 0.2 kHz Devi.
(F)	Standard Frequency Adjustment	Adjust VC201 so that transmission ferquency is set 914.0125 MHz \pm 0.5kHz(CH1). Connect frequency counter between TPA and GND.
(G)	12.8 MHz Transmitter Confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.
(H)	TX Power Confirmarion	Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm \pm 3 dB (10 mW~2.5 mW) Typ 5.0 mV.

Adjustment items (G) and (H): Refer to page 59.

Note: When selecting optional channel, press 23 keys after pressing Flash key of adjustment preparation 4 item (ex. CH23). Next press Talk key (Test mode on CH23 Talk).

■ INFORMATION (Change from original page 18)

Symptom: When redial operation or auto dial operation are slow.

Cancellation of the dial tone detect

- 1) Press Program button " ->> ".
- 2) Press 4 key.
- 3) Press # key.

Then portable handset's LCD indicates "1" or "2".

- " 1 " is normal.
- " 2 " is wrong.
- 4) When "2" is indicated, remedy according to 5), 6).
- 5) Press 1 key.
- 6) Press Program button " →>".

Then unit will be cancelled the dial tone detect.

■ ID CODE SETTING (Change from original page 19)

How to set base unit and portable handset to test mode

PORTABLE HANDSET

- 1) While pressing the Dial button 1 and 9 and X at same time, turn the Power switch "ON".
- 2) Press Page button "P" once on the Portable Handset. The Portable Handset becomes Test Standby mode.

BASE UNIT

- 3) While pressing SW1 (refer to page 15), connect power supply to AC adaptor. "Pi" alarm sounds.
- 4) Press Page button " •))) " once on the Base Unit.
 The Base Unit becomes Test Standby mode.

PORTABLE HANDSET

- 5) Press Program button "→> ".
- 6) Press Page button "P".
- 7) Enter ID code (7 digits).

Example: If you enter "000010" ID code, push 0, 0, 0, 0, 0, 0 keys.

- 8) Press Page button "P".
- 9) Press 1 key.
- 10) Press Page button "P". "Pi" alarm sounds.
- 11) Press [0] and [4] keys (It is country code for Sweden).
- 12) Press Page button "P".
- 13) If your unit is model No. KX-T9310DM, press 5 and 0 and 1 keys (It is KX-T9310DM model code of Portable Handset).
- 14) Press Page button "P".

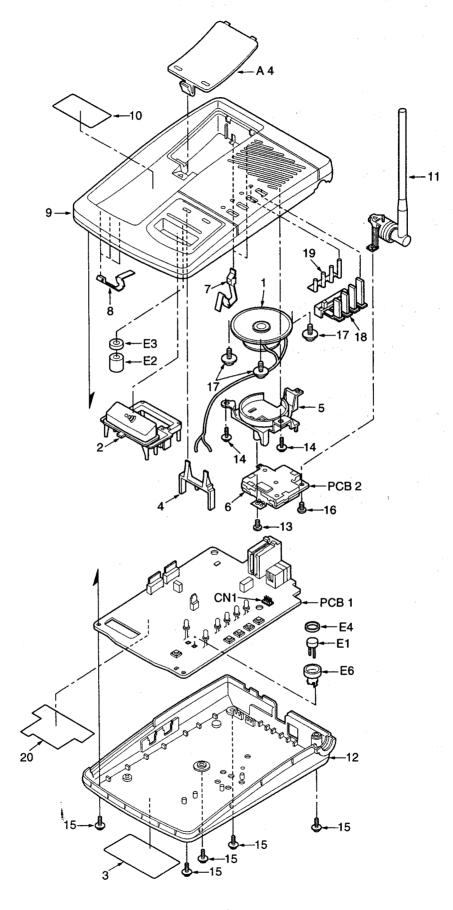
Portable Handset will make linkage to Base Unit.

- "Pi..." alarm sounds.
- 15) Press Page button "P".
- 16) If your unit is model No. KX-T9310DM, press 5 and 0 and 1 keys (It is KX-T9310DM model code of Base Unit).
- 17) Press Program button "→>> ".
- 18) Turn the Power switch to "OFF" to end the setting.

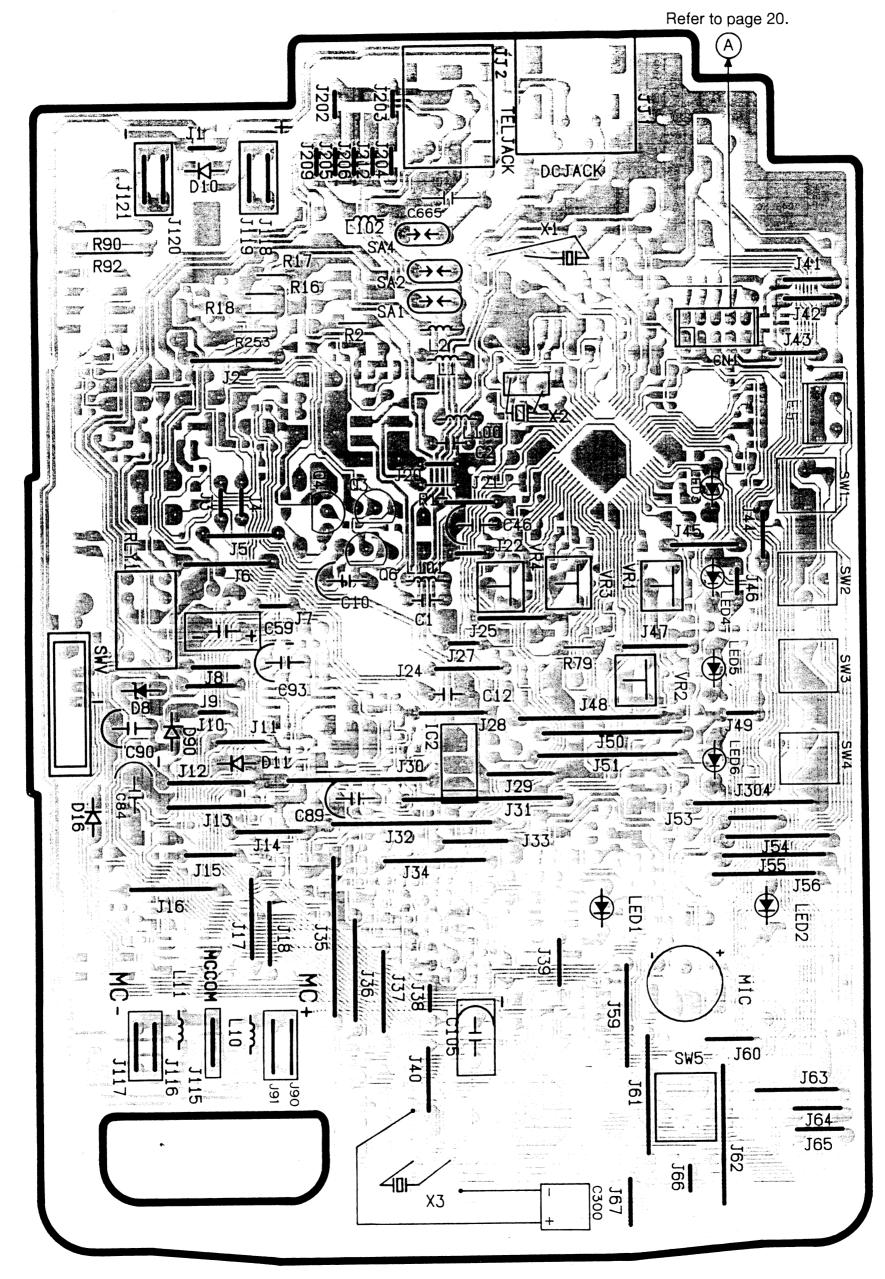
BASE UNIT

19) Press SW1 (refer to page 15) button to end the setting.

■ CABINET AND ELECTRICAL PARTS LOCATION (KX-T9310DMH) (Change from original page 60)



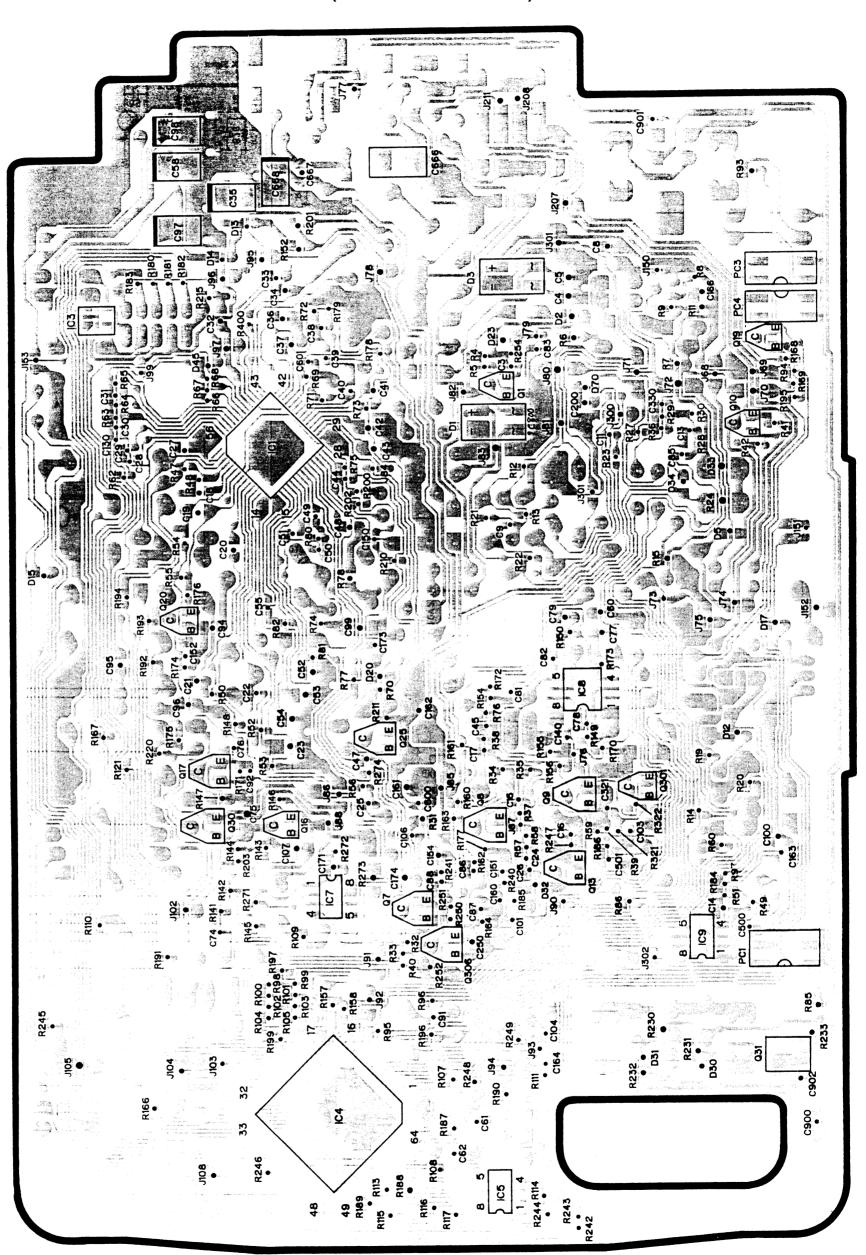
(Component View)

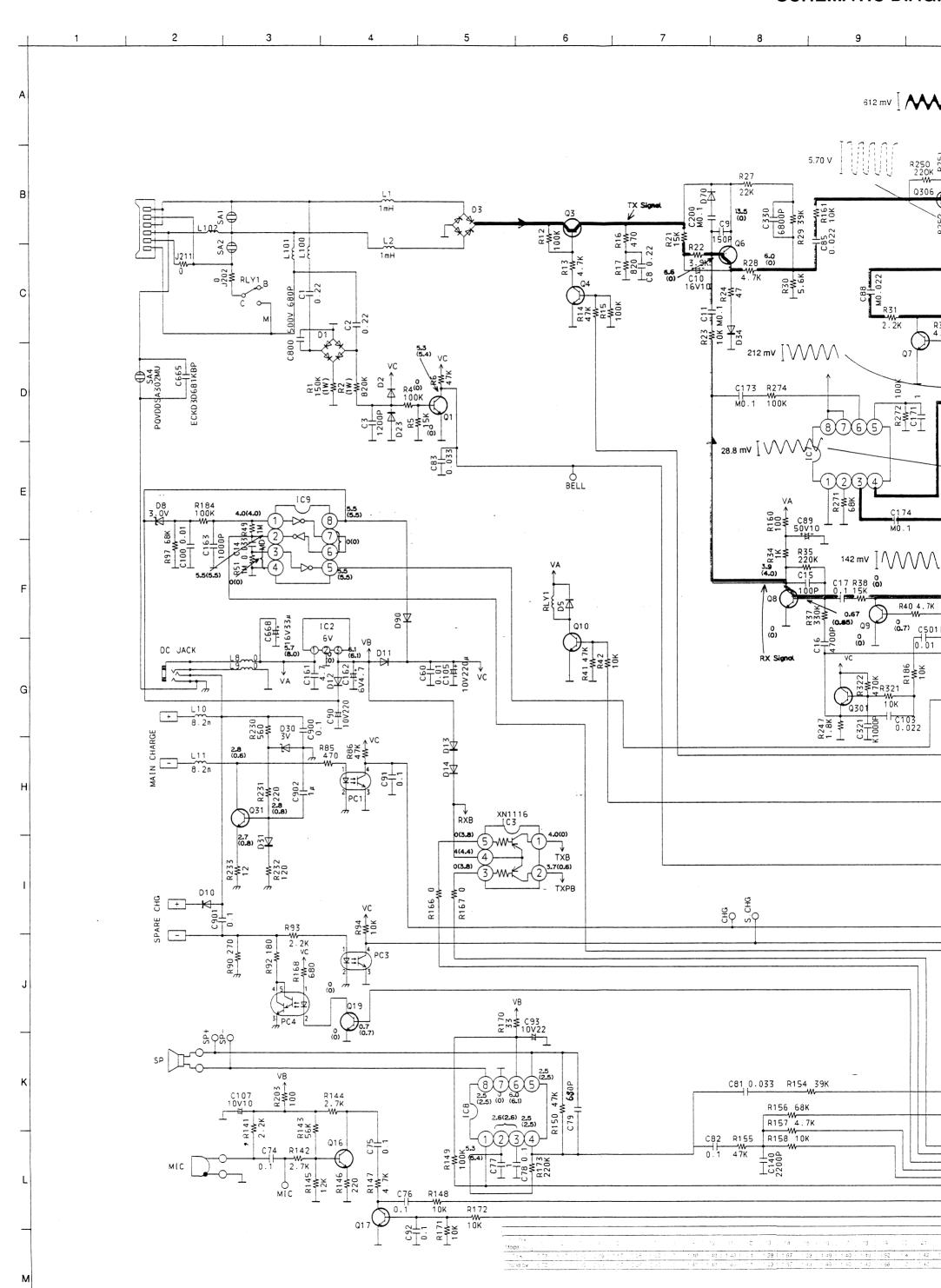


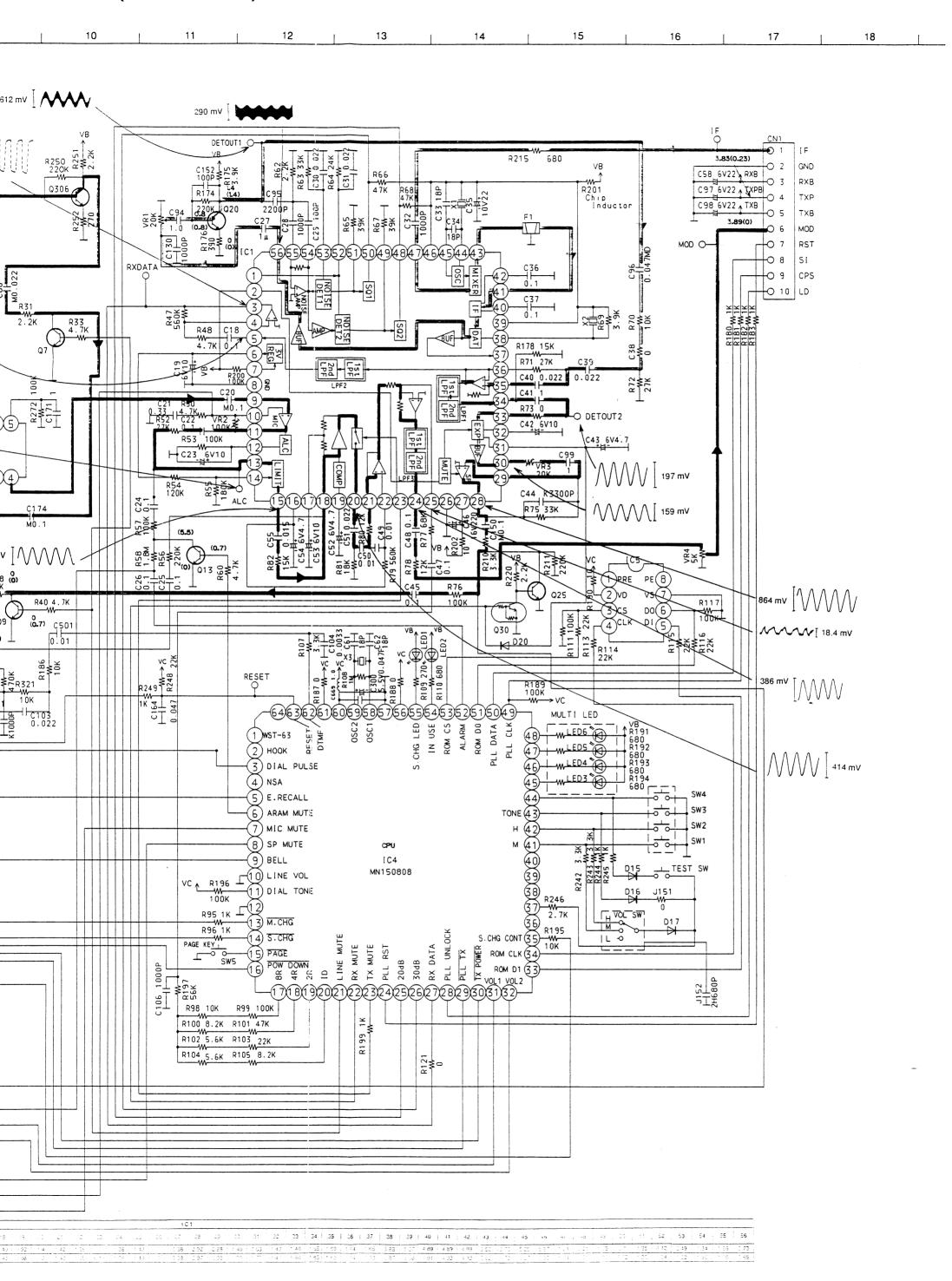
М

9 10 11 12 13 14 15 16 17

(Flow Solder SideView)







KX-T9310DM

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
L100	PQLQZM8R2K	COIL	1	R10	Not Used		
L101	PQLQZM8R2K	COIL	1	R11	Not Used		
L102	PQLQZM8R2K	COIL	1	R12	ERJ3GEYJ104	100K	1
R201	PQLQR1KT	COIL	1	R13	ERJ3GEYJ472	4.7K	1
	1			R14	ERJ3GEYJ473	47K	1
				R15	PQ4R10XJ104	100K	1
		(SWITCHES)		R16	ERDS2TJ471	470	1
SWV	PQSS3A17W	SWITCH, RINGER VOLUME	1	R17	ERDS2TJ821	820	1
SW1	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1	R18	Not Used		1
SW2	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1 1	R19	Not Used	}	
sw3	EVQQJJ05Q	SWITCH, HANDSET NUMBER	1 1				
SW4	EVQQJJ05Q	SWITCH, HANDSET NUMBER	lil	R20	Not Used		
SW5	EVQQJJ05Q	SWITCH, PAGE	1	R21	ERJ3GEYJ153	15K	1 1
3443	LVGGGGGGGG	OWN ON, I AGE	1 '	R22	ERJ3GEYJ392	3.9K	
	1	i		R23	ERJ3GEYJ103	10K	1
l		AVABIABLE DEGISTORS)					1 1
l		(VARIABLE RESISTORS)	1 . 1	R24	ERJ14YJ470	47	1 1
VR1	EVNDXAA03B24	VARIABLE RESISTOR	1 1	R25	Not Used		
VR2	EVNDXAA03B15	VARIABLE RESISTOR	1 1	R26	Not Used	1	
VR3	EVNDXAA03B24	VARIABLE RESISTOR	1 1	R27	ERJ3GEYJ223	22K	1 1
VR4	EVNDXAA03B53	VARIABLE RESISTOR	1 1	R28	ERJ3GEYJ472	4.7K	1
		•		R29	ERJ3GEYJ393	39K	1
		(VARISTORS)]	R30	ERJ3GEYJ562	5.6K	1
SA1	PQVDDSS301L	VARISTOR A	1	R31	PQ4R10XJ222	2.2K	1 1
SA2	PQVDDSS301L	VARISTOR A	1 1	R32	Not Used		
SA4	PQVDDSA302MU	VARISTOR	1 1	R33	ERJ3GEYJ472	4.7K	1 1
		A.		R34	ERJ3GEYJ102	1K	1 1
		1		R35	ERJ3GEYJ224	220K	
		(PHOTO COUPLERS)		R36	Not Used	LLON	
PC1	PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER &	1	R37	ERJ3GEYJ334	330K	1 1
	PQVIP27011M3	PHOTO ELECTRIC TRANSDUCER &	1	R38	ERJ3GEYJ153	15K	
PC3 PC4	PQVIP27021L3	PHOTO ELECTRIC TRANSDUCER &	1	R39	Not Used	ISK	i '
ŀ				R40	ERJ3GEYJ472	4.7K	1
		(JACKS)	l . I	R41	ERJ3GEYJ473	47K	1
JJ1	PQJJ1T013Y	JACK, DC	1 1	R42	PQ4R10XJ103	10K	1 1
JJ2	PQJJ1TC2Y	JACK, TEL	1	R43~46	Not Used		
			l I	R47	ERJ3GEYJ564	560K	1
			1	R48	ERJ3GEYJ472	4.7K	1 1
	İ	(CRYSTAL OSCILLATORS)	1	R49	ERJ3GEYJ105	1M	1
X1	PQVCJ2094N4R	CRYSTAL OSCILLATOR	1 1				
X2	PQVFCDBM455M	CRYSTAL OSCILLATOR	1 1	R50	ERJ3GEYJ472	4.7K	1 1
X3	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	lil	R51	ERJ3GEYJ105	1M	i
^3	FQV0000011192	CHISTAL OSCILLATOR	1 ' 1	R52	ERJ3GEYJ273	27K	
			1 1				
				R53	ERJ3GEYJ104	100K	1
		(OTHERS)	.	R54	ERJ3GEYJ124	120K	
CN1	PQJP10B01Z	CONNECTOR	1 1	R55	ERJ3GEYJ184	180K	1 1
RLY1	PQSL134Z	RELAY	1 1	R56	ERJ3GEYJ224	220K	1 1
E1	PQJM120Z	MIC	1 1	R57	ERJ3GEYJ104	100K	1 1
E2	PQHR10434Z	MIC SPACER	1 1	R58	ERJ3GEYJ185	1.8M	1
E3	PQHX10563Z	MIC NET	1 1	R59	Not Used		
E4	PQHX10564Z	MIC SPONGE	1 1			İ	
E5	EVQQKH06K	SWITCH, PROGRAM	1 1	R60	ERJ3GEYJ472	4.7K	1 1
E6	PQHR10317Z	MIC HOLDER		R61	Not Used	·	'
	1. 36.11.1001/2	TIGEDET	'	R62	ERJ3GEYJ222	2.2K	,
]		j l				
	1			R63	ERJ3GEYJ333	33K	1
		į		R64	ERJ3GEYJ243	24K	1
	1] İ	R65	ERJ3GEYJ393	39K	1
		1		R66	ERJ3GEYJ473	47K	1
	Ì			R67	ERJ3GEYJ393	39K	1
				R68	ERJ3GEYJ473	47K	1
		(RESISTORS)		R69	ERJ3GEYJ392	3.9K	1
R1	PQRD1VJ154	150K	1	R70	ERJ3GEYJ103	10K	1
R2	ERDS2TJ824	820K	1 1	R71		27K	1
R3	Not Used	5	·	R72	1 i	27K	1
		100K	1	R73	3	0	1
	ERJ3GEYJ104			1	· ·	ď	'
	ERJ3GEYJ153	15K	1	R74	Not Used		
	PQ4R10XJ473	47K	1	R75	ERJ3GEYJ333	33K	1
R7~9	Not Used				ERJ3GEYJ104	100K	1
- 1				R77	ERJ3GEYJ683	68K	1 1

Pcs/Set

Part Name & Description

MAIN P.C.BOARD PARTS

This replacement parts list is Denmark version only. Refer to the simplified manual (cover) for other areas.

Ref. No.

Part No.

RE	PLA	CE	MENT	PAR	TS L	IST					
Model KX-T9310DMH											
RTL (Retention Time Limited)											
After the	discontin	uation	of this asser	nbly in pr	oduction,	nited for this ite the item will retention period					
of availa	bility depe	ends or t retent	n the type of ion. At the e	assembly	and the	laws govering					
will no lo			€.								
Important safe Components			r A mark in	ndicates s	pecial cha	aracteristics					
important for				of these	componer	nts, only use					
specified man											
The S mark in parts.	idicates s	ervice	standard par	ts and m	ay differ fi	rom production					
4. RESISTORS	R CAPAC	ITORS									
Unless other											
All resistors a	•		K=1000Ω. M:	=1000ΚΩ							
All capacitors											
*Type & Watta	age of Re	sistor		,							
Type	•										
ERC:Solid			letal Film		PQ4R:Ca						
ERD:Carbon			Metal Oxide		1	ible Resistor					
PQRD:Carbon		ER0:N	letal Film		ERF:Cen	nent Resistor					
Wattage											
10,16:1/8W		:1/4W	12:1/20	٧	1:1W	2:2W 3:3W					
*Type & Voltag	je of Cap	acitor									
Type ECFD:Semi-Co	nduator		ECCD,ECK	D CODT	000D0 + 4	Oanamia					
ECQS:Styrol	Hauctor		ECCD,ECK								
PQCUV:Chip			ECEA,ECS			ıŧ					
ECQMS:Mica			ECQP : Poi								
Voltage			LOGI . FOI	Propyle	10						
ECQ Type	ECQG		ECSZ Type		Ot	thers					
	ECQV T	ype			•						
1H: 50V	05: 50V		0F:3.15V	0J :6.	3V	1V :35V					
2A:100V	1:100V		1A:10V	1A :10	V	50,1H:50V					
			1V:35V	1C :16	SV.	1J :63V					
2E:250V	2:200V		10.000			10 .004					
	2:200V		0J:6.3V	1E,25:25		2A :100V					
2E:250V	2:200V					1					

Ref. No.	Part No.	Part Name & Description	F	cs/Set
	C.	ABINET & ELECTRICAL PARTS		
7 8 9 10 11 12 13 14 15 16 17	PQAS5P25Z PQBC10165Z1 PQGT12578Z PQHR10298Y PQHR10320Z PQHX10560Z PQJT10088Z PQMM10200Q1 PQQT11202Z PQSA10031Z PQYF10079N1 XTN3+8G XTW3+S10P XTW3+S10P XTW3+S14P XYC3+CG10FX PJHE5065Z PQBX10215Z1 PQHR10318Z PQMC10206Z	ABINET & ELECTRICAL PARTS SPEAKER BUTTON, PAGE NAME PLATE LED PLATE SPEAKER HOLDER INSULATOR (RF) BATTERY TERMINAL BATTERY TERMINAL UPPER CABINET NOTE LABEL ANTENNA LOWER CABINET SCREW (RF) SCREW (SPEAKER HOLDER) SCREW SC	S	1 1 1 1 1 1 1 2 3 1 1 1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1

PCB1	s s	1 1 1 1 1 1 1 1
IC1		1 1 1 1 1 1 1
IC1		1 1 1 1 1 1 1
IC1		1 1 1 1 1 1 1
IC2		1 1 1 1 1 1 1
IC4		1 1 1 1 1 1 1
IC5	S	1 1 1 1
IC8		1 1 1 1 1
IC8		1 1 1 1
IC9		1 1 1
(TRANSISTORS) (TRANSISTORS) Q1 2SC4116 TRANSISTOR(SI) Q3 2SA1625 TRANSISTOR(SI) Q4 PQVT2N6517CA TRANSISTOR(SI) Q6 2SD1992A TRANSISTOR(SI) Q7 2SD601A TRANSISTOR(SI) Q8 2SD601A TRANSISTOR(SI) Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		1 1 1
Q1 2SC4116 TRANSISTOR(SI) Q3 2SA1625 TRANSISTOR(SI) Q4 PQVT2N6517CA TRANSISTOR(SI) Q6 2SD1992A TRANSISTOR(SI) Q7 2SD601A TRANSISTOR(SI) Q8 2SD601A TRANSISTOR(SI) Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		1 1
Q1		1 1
Q3		1 1
Q4 PQVT2N6517CA TRANSISTOR(SI) Q6 2SD1992A TRANSISTOR(SI) Q7 2SD601A TRANSISTOR(SI) Q8 2SD601A TRANSISTOR(SI) Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		1
Q6 2SD1992A TRANSISTOR(SI) Q7 2SD601A TRANSISTOR(SI) Q8 2SD601A TRANSISTOR(SI) Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		
Q7		1
Q8 2SD601A TRANSISTOR(SI) Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		
Q9 2SD601A TRANSISTOR(SI) Q10 2SC4116 TRANSISTOR(SI)		1
Q10 2SC4116 TRANSISTOR(SI)		1
, , , , , , , , , , , , , , , , , , , ,		1
LIQIS IZSD601A ITRANSISTOP(SI)		1
11-11	l	1
Q16 2SC4116 TRANSISTOR(SI)		1
Q17	l	1
Q19		1
Q25 2SD1328 TRANSISTOR(SI)	1	1
Q30 PQVTDTC143E TRANSISTOR(SI)		1
Q31 2SD1664Q TRANSISTOR(SI)		1
Q301 2SC4116 TRANSISTOR(SI)	l	1
Q306 2SC4116 TRANSISTOR(SI)	İ	1
IC3 XN1116 TRANSISTOR(SI)	1	1
	I	
(DIODES)		
D1 PQVDS1ZB40F1 DIODE(SI)	i	1
D2 MA110 DIODE(SI)		1
D3 PQVDS1ZB40F1 DIODE(SI)	1	1
D5 MA110 DIODE(SI)		1
D8 MA4030 DIODE(SI) D10 1SS131 DIODE(SI)	1	1
	1	1
1-1-	ľ	1
D12 MA110 DIODE(SI) D13 MA112 DIODE(SI)	į	1 1
D14 MA112 DIODE(SI)	-	1
D15 MA110 DIODE(SI)		1
D16 1SS131 DIODE(SI)		1
D17 MA110 DIODE(SI)	l	1
D20 MA110 DIODE(SI)	j	1
D23 MA110 DIODE(SI)	Į	1
D30 MA8030 DIODE(SI)	ı	1
D31 MA110 DIODE(SI)	İ	1
D34 MA112 DIODE(SI)	l	1
D70 MA8068M DIODE(SI)	l	1
D90 1SS131 DIODE(SI)	- 1	1
LED1 LNJ41LNKXAK LED	ł	1
LED2 LN31GCPHV LED	- 1	1
LED3 LN31GCPHV LED	- 1	1
LED4 LN31GCPHV LED LED5 LN31GCPHV LED		1
LED5 LN31GCPHV LED LED6 LN31GCPHV LED	- 1	1 1
LINGIGOPHY LED	- 1	'
	İ	
(COILS)		
L1 ELEV102KA COIL		1
L2 ELEV102KA COIL	1	- i
L10 PQLQZM8R2K COIL	i	1
L11 PQLQZM8R2K COIL		1 1

KX-T9310DM

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R250	ERJ3GEYJ224	220K	1			(CAPACITORS)	
R251	ERJ3GEYJ222	2.2K	1 1	C1	ECQE2224KF	0.22	1
R252	ERJ3GEYJ271	270	1 1	C2	ECQE2224KF	0.22	1
R253~269	Not Used		l 1	C3	ECUV1H122KBV	1200P	1
				C4~7	Not Used	l	. ا
R270	Not Used			C8	PQCUV1C224ZF	0.22 S	
R271	ERJ3GEYJ683	68K	1 1	C9	ECUV1H151JCV	150P	1
R272	ERJ3GEYJ104	100K	1	امرا	EOEA4CKC100	10	1
R273	ERJ3GEY0R00	0	1 1	C10	ECEA1CKS100 ECUV1E104ZFV	0.1 S	1
R274	ERJ3GEYJ104	100K	1	C11	1	0.1	Ϊ '
R275~319	Not Used			C12	Not Used		
		·		C13	Not Used	l	١.
R320	Not Used			C14	PQCUV1H333JC	0.033 S	1
R321	ERJ3GEYJ103	10K	1 1	C15	ECUV1H101JCV	100P	1
R322	ERJ3GEYJ474	470K	1	C16	ECUV1H472KBV	4700P	1
R323~399	Not Used		ł	C17	ECUV1E104ZFV	0.1 S	1
			i I	C18	PQCUV1E104MD	0.1	1
R400	ERJ3GEY0R00	0	1	C19	ECST0JY106	10	1
J73	ERJ3GEY0R00	0	1	C20	PQCUV1E104MD	0.1	1
J76	ERJ3GEY0R00	lo ·	1	C21	PQCUV1E334ZF	0.33	1
J79	ERJ3GEY0R00	lo	1	C22	ECUV1E104ZFV	0.1 S	1
J84	ERJ3GEY0R00	o ·	1	C23	ECST0JY106	10	1
J87	ERJ3GEY0R00	o	i	C24	ECUV1E104ZFV	0.1 S	1
J90	ERJ3GEY0R00	o o	1 1	C25	ECUV1E104ZFV	0.1 S	1
J93	ERJ3GEY0R00	o o	1 1	C26	ECUV1E104ZFV	0.1 S	1
J99	ERJ3GEY0R00	o	1 1	C27	PQCUV1C105ZF	1 S	1 1
J103	ERJ3GEY0R00	o o	1 1	C28	ECUV1H102KBV	1000P	1
J150	ERJ3GEY0R00	o	1 1	C29	ECUV1H101JCV	100P	1 .
J151	ERJ3GEY0R00	0	1			_	
				C30	ECUV1H223KBV	0.022 S	
J75	PQ4R10XJ000	0	1 1	C31	ECUV1H223KBV	0.022 S	
J77	PQ4R10XJ000	0	1 1	C32	PQCUV1H102J	1000P S	
J82	PQ4R10XJ000	0	1 1	C33	PQCUV1H180JC	18P	1 1
J85	PQ4R10XJ000	0	1 1	C34	Not Used		
J88	PQ4R10XJ000	0	1	C35	ECST1AX226	22	1
				C36	PQCUV1E104MD	0.1	1
J68	PQ4R18XJ000	0	1	C37	PQCUV1E104MD	0.1	1
J69	PQ4R18XJ000	0	1 1	C38	ERJ3GEY0R00	0	1 1
J70	PQ4R18XJ000	0	1	C39	ECUV1H223KBV	0.022 S	1
J71	PQ4R18XJ000	0	1			l	1 .
J74	PQ4R18XJ000	0	1	C40	ECUV1H223KBV	0.022 S	
J78	PQ4R18XJ000	0	1 1	C41	PQCUV1C105ZF	1 S	1
J80	PQ4R18XJ000	0	1 1	C42	ECSTOJY106	10	1
J81	PQ4R18XJ000	0	1	C43	ECST0JY475	4.7	1
J83	PQ4R18XJ000	0	1	C44	ECUV1H332KBV	3300P	1
J86	PQ4R18XJ000	0	1 1	C45	ECUV1E104ZFV	0.1 S	1
J89	PQ4R18XJ000	0	1 1	C46	ECEA1CU221	220	1
J91	PQ4R18XJ000	0	1 1	C47	POCUV1E104MD	0.1	1
	PQ4R18XJ000	0	1	C48	PQCUV1E104MD	0.1	1
	PQ4R18XJ000	0	1 1	C49	ECUV1H103KBV	0.01	1
	PQ4R18XJ000	0	1		FOI NAME:	l	
J96	PQ4R18XJ000	0	1	C50	ECUV1H103KBV	0.01	1
J97	PQ4R18XJ000	0	1	C51	ECUV1H223KBV	0.022 S	1
J102	PQ4R18XJ000	0	1 1	C52	ECST0JY475	4.7	1
J104	PQ4R18XJ000	0	1	C53	ECST0JY106	10	1
J105	PQ4R18XJ000	[0	1	C54	ECST0JY475	4.7	1
J108	PQ4R18XJ000	О	1	C55	ECUV1H153KBV	0.015	1
J202	PQ4R18XJ000	0	1	C56	Not Used		1
J211	PQ4R18XJ000	0	1	C57	Not Used		1
J300	PQ4R18XJ000	0	1	C58	ECST0JX226	22	1 1
J303	PQ4R18XJ000	0	1	C59	EECW5R5D473	0.047 S	1
D33	PQ4R18XJ000	o	1	C60	PQCUV1H103KB	0.01	1
D45	PQ4R10XJ000	lo	1	C61	ECUV1H180JCV	18P	1
-				C62	ECUV1H180JCV	18P	1
				C63~69	Not Used		
				C70~73	Not Used		1
l				C70~73	ECUV1C104KBV	0.1	1
						_	

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R78	PQ4R10XJ123	12K	1	R160	ERJ3GEYJ101	100	1
R79	ERDS2TJ564	560K	1 1	R161	ERJ3GEYJ103	10K	1
D00	בס ומסביי ואמי	1016		R162~165	Not Used		
R80 R81	ERJ3GEYJ123 ERJ3GEYJ183	12K 18K	1	R166	ERJ3GEY0R00	0	1 1
R82	ERJ3GEYJ153	15K	1 1	R167 R168	ERJ3GEY0R00 ERJ3GEYJ681	0 680	1 1
R83	Not Used	TOR		R169	Not Used	1080	1
R84	Not Used				THOI USEU		
R85	PQ4R10XJ471	470	1	R170	ERJ3GEYJ330	33	1 1
R86	ERJ3GEYJ473	47K	1	R171	ERJ3GEYJ103	10K	1
R87~89	Not Used	.		R172	Not Used		
				R173	ERJ3GEYJ224	220K	1 1
R90	ERD25TJ271	270	- 1	R174	ERJ3GEYJ224	220K	li
R91	Not Used	The second second second		R175	ERJ3GEYJ392	3.9K	1
R92	ERD25TJ181	180	1 1	R176	ERJ3GEYJ391	390	1
R93	PQ4R10XJ222	2.2K	1 1	R177	Not Used		
R94	ERJ3GEYJ103	10K	1 1	R178	ERJ3GEYJ153	15K	1
R95	ERJ3GEYJ102	1K	1	R179	Not Used		
R96	ERJ3GEYJ102	1K	1 1			1	
R97	ERJ3GEYJ683	68K		R180	ERJ3GEYJ102	1K	1 1
R98	ERJ3GEYJ103	10K	1	R181	ERJ3GEYJ102	1K	1 1
R99	ERJ3GEYJ104	100K	1	R182 R183	ERJ3GEYJ102	1K	1
R100	ERJ3GEYJ822	8.2K	1	R184	ERJ3GEYJ102 ERJ3GEYJ104	1K	1
R101	ERJ3GEYJ473	47K		R186	ERJ3GEYJ104	100K 10K	
R102	ERJ3GEYJ562	5.6K	1 1	R187	ERJ3GEY0R00	0	
R103	ERJ3GEYJ223	22K	1	R188	PQ4R18XJ000	0	
R104	ERJ3GEYJ562	5.6K	l i l	R189	ERJ3GEYJ104	100K	l i l
R105	ERJ3GEYJ822	8.2K	1 1				'
R106	Not Used			R190	ERJ3GEYJ100	10	1
R107	ERJ3GEYJ332	3.3K	1 1	R191	ERJ3GEYJ681	680	1
R108	ERJ3GEYJ105	1M	1 1	R192	ERJ3GEYJ681	680	1
R109	ERJ3GEYJ271	270	1 1	R193	ERJ3GEYJ681	680	1 1
	55 10 0 57 (100 t		1 . 1	R194	ERJ3GEYJ681	680	1 1
R110	ERJ3GEYJ681	680	1 1	R191~194	Not Used	l	l . I
	ERJ3GEYJ104 Not Used	100K	1	R195 R196	ERJ3GEYJ103	10K	!
	ERJ3GEYJ223	22K	1 1	R190	ERJ3GEYJ104 ERJ3GEYJ563	100K	!
	ERJ3GEYJ223	22K	1 1	R198	Not Used	56K	1 1
	ERJ3GEYJ223	22K		R199	ERJ3GEYJ102	1K	1 1
	ERJ3GEYJ223	22K		1		···	'
R117	ERJ3GEYJ104	100K	1 1	R200	ERJ3GEYJ104	100K	1 1
R118	Not Used		1 1	R202	ERJ3GEYJ100	10	1
R119	Not Used			R203	ERJ3GEYJ101	100	1 1
		1	1 1	R204~209	Not Used	İ	i i
	Not Used	İ		j			
	ERJ3GEY0R00	0	1		ERJ3GEYJ332	3.3K	1 1
R122~139	Not Used	**			ERJ3GEYJ224	220K	1 1
B140	No. 11 and				Not Used	1	1 . I
	Not Used ERJ3GEYJ222	2 28	1 . 1	R215	ERJ3GEYJ681	680	1
	ERJ3GEYJ222 ERJ3GEYJ272	2.2K 2.7K	1 1	R216~219	NOLUSEO	1	
	ERJ3GEYJ563	56K	1 1	R220	ERJ3GEYJ222	2.2K	1
	ERJ3GEYJ272	2.7K		R221~229		2.21	'
	ERJ3GEYJ123	12K	1 1		1101 0000	į.	
	ERJ3GEYJ221	220	1 1	R230	ERD10TLJ561	560	1 1
	PQ4R10XJ472	4.7K		R231	PQ4R10XJ221	220	1 1
R148	ERJ3GEYJ103	10K	1 1	R232	PQ4R10XJ121	120	1
R149	ERJ3GEYJ104	100K	1 1	R233	PQ4R10XJ120	12	1 1
		1		R234~239	Not Used		
	ERJ3GEYJ473	47K	1 1				
	Not Used				Not Used		
	PQ4R10XJ000	0	1 1		Not Used	1	
	Not Used	0014	1 , 1	R242	ERJ3GEYJ332	3.3K	1
_ 1	ERJ3GEYJ393	39K		R243	ERJ3GEYJ332	3.3K	1
	ERJ3GEYJ473	47K	1 1	R244	ERJ3GEYJ102	1K	1 1
	ED 100 EV 1600	1607					
R156	ERJ3GEYJ683 ER I3GEV 1472	68K	1 1	R245	ERJ3GEYJ102	1K	1 1
R156 R157	ERJ3GEYJ472	4.7K	1	R246	ERJ3GEYJ272	2.7K	1
R156 R157 R158				R246 R247		1	

Description	Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
C79			1	1 1	1 1	i	1000P	1
Column	1 1			1 i	C322~329	Not Osed]
C82 ECUVIH333RV D.1	1 :	i e		• •		1	6800P	1
Comparison								
C84			1				0.01	
C85			•			ž .	0.01	'
C886	1		0.033	'	0302-333	Not osed		
C88	1		0.022 S	1	C600	ECUV1E104ZFV	0.1	1
C88	1						•	
Company Comp	C87	Not Used			· [
C90 ECEA1AKS221 220								
Company Comp	C89	ECEA1HKS100	10	1		1	680P	1
Columbia Columbia		EOEAAAVC004	222			1	22	4
C932 ECLV1-E104ZFV 0.1						į	33	' 1
C934 CQLVI1C105ZP 22			1		0003-700	not osca		
CS95			1		C800	ECUV2H681KB		1
C98				1	C801~899	Not Used		
CSP	C95	PQCUV1H222KB	2200P	1	1			
C99			•	1 1		L		
C99 ECUV1E103ZF 1 S 1								
C100				, ,	C902	PQCUVICIUSZF	!	'
C101	Caa	ECOV 1E 1052F	['	'				
C101	C100	PQCUV1H103KB	0.01	1.				
C103								
C104	C102	Not Used			1			
C105 ECEA1AK221 220 S 1	1		•		1			
C106			1		1			
C107			220 S	1 1	•			
C108-129 Not Used C130			10	1 1	1			
C131–139 Not Used C140				·				
C150			1000P	1				
C150			2200P	1				
C151			0.4					
C152			0.1		1		·	
C153~159 Not Used C160 Not Used C161 ECST1CV475 4.7 1 C162 ECST0JY475 4.7 1 C163 ECUV1H102KBV 1000P 1 C164 ECUV1H473MDV 0.047 1 C165~169 Not Used C170 Not Used C171 PQCUV1C105ZF 1 1 1 C172 PQ4R10XJ000 0 1 C173 ECUV1E104ZFV 0.1 1 C174~199 Not Used C200 PQCUV1E104MD 0.1 1 C201~249 Not Used C250 PQ4R10XJ000 0 1 C251~299 Not Used C300 EECW5R5D473 0.047 1			100P	1				
C161								
C162	C160	Not Used			1			
C163								1
C164	B · · · - I							1
C165~169 Not Used C170 Not Used C171 PQCUV1C105ZF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								- 1
C171 PQCUV1C105ZF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0.047	·				1
C171 PQCUV1C105ZF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		No. 11aad						l
C172			1	1				
C173	1 1		lo l					
C200 PQCUV1E104MD 0.1 1 C201~249 Not Used 0 1 C250 PQ4R10XJ000 0 1 C251~299 Not Used 0 0.047 1				1				
C201~249 Not Used C250 PQ4R10XJ000 0 1								
C250 PQ4R10XJ000 0 1	C200	PQCUV1E104MD	0.1	1				
C251~299 Not Used C300 EECW5R5D473 0.047 1	C201~249	Not Used						
C300 EECW5R5D473 0.047 1	1 1		0	1				
	U251~299	NOT USED						
			0.047	1				
C320 Not Used	C320	Not Used						

Ref. No.	Part No.	Part Name & Description	n	Pcs/Set	Ref. No.	Part No.	Va	lue	Pcs/Set
		RF UNIT PARTS			R210	ERJ3GEYJ104	100K		1
DODA	IDOLD404500	TO C DO ADD ACON (DTI)			R211	ERJ3GEYJ122	1.2K		1
PCB2	PQLP10153S	P.C.BOARD ASS'Y (RTL)		1 1	R212	ERJ3GEYJ561	560		1 1
					R213 R214	ERJ3GEYJ470	47		
		(ICS)			R214	ERJ3GEYJ104 ERJ3GEYJ681	100K		1 1
IC201	PQVIM64084GP	IC			R216	Not Used	680		1
IC201	PQVIPC2746TE	ic		1 1	R217	Not Used			İ
10202	1 avii 02/40/2			'	R218	ERJ3GEYJ820	82		1 1
					R219	ERJ3GEYJ123	12K		li
		(TRANSISTORS)		<u> </u>					1
Q201	2SC4099NT106	TRANSISTOR(SI)		1 1	R220	ERJ3GEYJ470	47		1
Q202	2SC4099NT106	TRANSISTOR(SI)		1	R221	ERJ3GEYJ100	10		1 1
Q203	2SC4571R77	TRANSISTOR(SI)	S	1	R222	ERJ3GEYJ123	12K		1 1
Q204	2SC3356R24	TRANSISTOR(SI)		1 1	R223	ERJ3GEYJ473	47K		1
Q205	2SC4571R77	TRANSISTOR(SI)	S	1	R224	ERJ3GEYJ683	68K		1
Q206	2SC4226R24	TRANSISTOR(SI)		1	R225	ERJ3GEYJ470	47		1
		į		i l	R226	ERJ3GEYJ470	47		1
		l			R227	ERJ3GEYJ390	39		1
		(COILS)			R228	ERJ3GEYJ681	680		1
L201	PQLQR2N1R0KT	COIL		1	R229	ERJ3GEYJ820	82		1
L202 L203	PQLQR2N1R0KT PQLQR2M4N7K	COIL		1 1	R230	ERJ3GEYJ563	56K		1 .
L203 L204	PQLQR2M4N/K	COIL		;	R231	ERJ3GEYJ153	15K		1 !
L204 L205	PQLQR2M10NKT	COIL			R232	ERJ3GEYJ153	15K		1 1
L206	MQLRE12NJF	COIL			R233	ECUV1H010CCV	1P		l i
00 L207	MQLRE10NJF	COIL		1	R234	ERJ3GEYJ100	10		1 1
L209	PQLQR2M4N7K	COIL		1 1	R235~239	Not Used	1.		
L210	PQLQR2M4N7K	COIL		1					
L220	PQLQR2M8N2KT	COIL		1 1	R240	ERJ3GEYJ272	2.7K		1
L221	PQLQR2M8N2KT	COIL		1	R241~259	Not Used			
C233	PQLQR2M10NKT	COIL		1	1				1
					R260	Not Used	İ		İ
					R261	ERJ3GEYJ000	0		1
	BO1/0407	(OSCILLATORS)			R262~269	Not Used			
VC0201 VC0202	PQV016Z PQV015Z	OSCILLATOR OSCILLATOR		1	R270	בם ומסביע ומספ			١.
VC0202	FQV0152	OSCILLATOR		'	n2/0	ERJ3GEYJ000	O		1
		(SAW FILTERS)							
F201	PQVCM21M8PJ2	CERAMIC FILTER		1	i				
F202	PQVSM959E11L	CERAMIC FILTER		1					
F203	PQVSM914E11L	CERAMIC FILTER		1					
F204	EZFN914AM01	CERAMIC FILTER		1					
		(OTHERS)							
VC201	PQCVTZB10ZA	TRIMMER CAPACITOR		1			(CAPACITORS)		
X201	PQVC01280K4Z	CRYSTAL OSCILLATOR		1	C201	Not Used	(OAI AOITOTIO)		
CN201	PQJS10A82Z	CONNECTOR		1	C202	ECST0JX226	22		1 1
	l	i			C203	PQCUV1C105ZF	1		1 1
		•			C204	ECUV1H101JCV	100P		1 1
				i	C205	ECUV1H821KBV	820P		1 1
					C206	Not Used			
					C207	ECUV1H332KBV	0.0033		1
					C208	ECUV1H332KBV	0.0033		1
					C209	ECUV1E104ZFV	0.1	S	1
	İ				C210	ECUV1H103KBV	0.01		1
	ŀ					ECST0JX226	22		1
	1	(RESISTORS)		ı		ECUV1H103KBV	0.01		1
3201	ERJ3GEYJ220	22	ľ	1		ECUV1H101JCV	100P		1
3202	ERJ3GEYJ680	68		1		Not Used	1		
3203	ERJ3GEYJ000	0	ì	1		ECUV1H040CCV	4P		1
R204	ERJ3GEYJ153	15K	1	1	: :	ECUV1H103KBV	0.01		1
R205	ERJ3GEYJ153	15K		1		ECUV1H270JCV	27P	_	1 1
R206 R207	ERJ3GEYJ563	56K		1		ECUV1E104ZFV	0.1	s	1 1
1207 1208	ERJ3GEYJ470 ERJ3GEYJ104	47 100K		1	C219	Not Used			I
	1-1000-10104	FIVOR	- 1		1 1		I		1
1200	ERJ3GEYJ272	2.7K	- 1	1	C220	ECUV1H010CCV	1P		1

Ref. No.	Part No.	Value	Pcs/Set
C222	ECHWILLIAM DOW	100	
C222	ECUV1H100DCV	10P	1
	ECUV1H270JCV	27P	1
C224	ECUV1H270JCV	27P	1
C225	Not Used		
C226	Not Used	1	
C227	ECUV1H102KBV	1000P	1
C228	ECUV1H020CCV	2P	1
C229	ECUV1H102KBV	1000P	1
3223	LOGVIIIIOZREV	110001	'
C230	ECUV1H040CCV	4P	
	1	45	1
C231	Not Used	·	
C232	ECUV1H102KBV	0.001	1
C234	ECUV1H020CCV	2P	1
C235	ECUV1H101JCV	100P	1
C236	ECUV1H101JCV	100P	1
C237	Not Used	1001	'
	· ·	1	
C238	ECUV1H040CCV	4P	1
C239	Not Used	. 1	
]	l ·	.	
C240	ECUV1H040CCV	4P	1
C241	ECUV1H102KBV	0.001	1
C242	ECUV1H102KBV	0.001	1
C243	Not Used	0.001	'
		I ₂ 224	
C244	ECUV1H102KBV	0.001	1
C245	ECUV1H101JCV	100P	1
C246	ECUV1H020CCV	2P	1
C247	ECUV1E104ZFV	0.1 S	1
C248	Not Used	1	
C249	ECST0JX226	22	1
			· 1
C250	Not Used		
C251	ECUV1H102KBV	0.001	1
C252	ECUV1C224KB	0.22	1
C253	ECUV1H562KBV	0.0056	1
C254	ECUV1H562KBV	0.0056	1
C255~259	Not Used		
		1	- 1
C260	Not Used	<u> </u>	
C261	Not Used		- 1
		1,000	_ ,
C262	ECUV1H101JCV	100P	1
	=6.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	1	1
L208	ECUV1H101JCV	100P	1
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REPLACEMENT PARTS LIST	Ref. No.	Part No.	Part Name & Description	Pcs/Set
Model KX-T9310DMR 1. RTL (Retention Time Limited)			MAIN P.C.BOARD PARTS	*·
Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability depends on the type of assembly and the laws govering parts and product retention. At the end of this period, the assembly will no longer be available. 2. Important safety notice Components identified by the mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's parts. 3. The S mark indicates service standard parts and may differ from production	IC1 IC2 IC3 IC4 IC5 IC6	PQWPT9310DMR AN6159NFA PQVIXC3002MR PQVIA8184SLT PQVISC78184D PQVI93LC46XI PQVI4829C23H	P.C.BOARD ASS'Y (RTL) (ICS) IC IC IC IC IC	1 1 1 1 1
parts. 4. RESISTORS & CAPACITORS Unless otherwise specified; All resistors are in ohms (Ω) K=1000Ω, M=1000ΚΩ All capacitors are in MICRO FARADS (μF) P=μμF *Type & Wattage of Resistor Type ERC:Solid ERX:Metal Film PQ4R:Carbon ERG:Metal Oxide ERS:Fusible Resistor PQRD:Carbon ER0:Metal Film ERF:Cement Resistor Wattage 10,16:1/8W 14,25:1/4W 12:1/2W 1:1W 2:2W 3:3W *Type & Voltage of Capacitor Type ECFD:Semi-Conductor ECCD,ECKD,ECBT,PQCBC: Ceramic ECQS:Styrol ECQE,ECQV,ECQG: Polyester	Q1 Q5 Q6 Q7 Q9 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19	2SD1328 PQVTDTC143E 2SC4116 2SC4116 2SB1218A PQVTDTC143E PQVTDTC143E PQVTDTA143EU PQVTDTB123E 2SD1819A PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E	(TRANSISTORS) TRANSISTOR(SI)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PQCUV:Chip	D1 D3 D5 D11 D12 D13 D14 D15 D16	MA8150 MA110 PQVDRB751H4 MA729 MA729 MA729 MA729 MA710 MA8039 MA110	TRANSISTOR(SI) S (DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI)	1 1 1 1 1 1
102 PQKF10119Z1 REAR CABINET 1 103 PQSA808X ANTENNA 1 104 XWC26BFN WASHER 1 105 PQSX10016Z1 BUTTON, KEY PAD 1 106 PQBD10032Z1 BUTTON, POWER/RINGER S 107 PQAX3P19Z SPEAKER 1 108 PQEFBQM111G1 BUZZER S 1 109 PQJM122Z MICROPHONE 1 1 110 PQJT10085Z CHARGE TERMINAL S 3 111 PQJT10086Z CHARGE TERMINAL 2 112 PQHX10085Z ID COVER 1 113 PQKE10038Z1 HANGER 1	VR1 VR3 VR4 X1 X3 X4	EVM1YSX50B24 EVM1YSX50B54 EVM1SSX50B53 PQVCE2094N4R PQVBTCS4.00M PQVCE3276N9Z	(VARIABLE RESISTORS) VARIABLE RESISTOR VARIABLE RESISTOR VARIABLE RESISTOR (CRYSTAL OSCILLATORS) CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR	1 1 1 1 1 1
114 PQHG10300Z SPACER (SPEAKER) 1 115 PQHG10286Z SPACER (MIC) 1 116 PQHX10503Z SPACER (MIC) 1 117 PQHG10326Z SPACER (RINGER) 1 118 XTN26+6J SCREW 2 119 XTW26+12F SCREW 4 120 PQHX10508Z INSULATOR 1 121 PQGT12184Z NAME PLATE 1	S1 CN1 CN2	ESD11H120 PQJP10B01Z PQJS36A62Z	(SWITCH) SWITCH, POWER (CONNECTORS) CONNECTOR CONNECTOR	1
		PQVFSFPC455E PQVFCDBC455M	(CERAMIC FILTERS) CERAMIC FILTER CERAMIC FILTER	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
		(RESISTORS)		R67	ERJ3GEYJ474	470K	. 1
R1	ERJ3GEYJ684	680K	1	R68	Not Used	1	ì
R2	ERJ3GEYJ100	10	1	R69	Not Used		
R3	ECUV1H472KBV	0.0047	1	l I			-
R4	ERJ3GEYJ332	3.3K	1	R70	Not Used		
R5	ERJ3GEYJ393	39K	1	R71	PQ4R10XJ000	lo	1
R6	Not Used		I .	R72	PQ4R10XJ000	О	1
R7	ERJ3GEYJ473	47K	1	R73	PQ4R10XJ221	220	1 1
R8	ERJ3GEYJ473	47K	1 1	R74~78	Not Used	1220	1 '
R9	ERJ3GEYJ183	18K	1 1	R79	ERJ3GEYJ103	10K	1
	2.1000210100				Linouziono	'"	1 '
R10	ERJ3GEYJ183	18K	1	R80	ERJ3GEYJ104	100K	1
R11	ERJ3GEYJ683	68K	1	R81	ERJ3GEYJ683	68K	1
R12	ERJ3GEYJ823	82K	1 1	R82~86	Not Used		
R13	ERJ3GEYJ222	2.2K	1 1	R87	ERJ3GEYJ100	10	1
R14	ERJ3GEYJ000	О	1 1	R88	ERJ3GEYJ103	10K	1 1
R15	ERJ3GEYJ104	100K	1 1	R89	ERJ3GEYJ103	10K	1
R16	ERJ3GEYJ473	47K					1
R17	Not Used	177	1 ' !	R90	ERJ3GEYJ104	100K	1 .
		FEOR	1 . 1				1 1
R18	ERJ3GEYJ564	560K	1 1	R91	ERJ3GEYJ104	100K	1 1
R19	ERJ3GEYJ103	10K	1	R92	ERJ3GEYJ104	100K	1 1
			1 1	R93	ERJ3GEYJ104	100K	1
R20	ERJ3GEYJ183	18K	1 1	R94	ERJ3GEYJ103	10K	1
R21	ERJ3GEYJ223	22K	1 1	R95	ERJ3GEYJ103	10K	1
R22	ERJ3GEYJ183	18K	1 1	R96	ERJ3GEYJ000	lo	1
R23	ERJ3GEYJ104	100K	1 1	R97	ERJ3GEYJ000	О	1 1
R24	ERJ3GEYJ184	180K	1	R98	ERJ3GEYJ000	o	1 1
R25	ERJ3GEYJ823	82K	i	R99	ERJ3GEYJ000	ŏ	1 1
R26	ERJ3GEYJ333	33K		1100	LINGGLIGOOD	ľ	1 '
		•		D100	ED IOOEV HOA	100	
R27	ERJ3GEYJ000	0	1 1	R100	ERJ3GEYJ101	100	1 1 1
R28	ERJ3GEYJ562	5.6K	1 1	R101	ERJ3GEYJ101	100	1 1
R29	ERJ3GEYJ472	4.7K	1 1	R102	ERJ3GEYJ101	100	1 1
			1 1	R103	ERJ3GEYJ101	100	1 1
R30	ERJ3GEYJ274	270K	1 1	R104	ERJ3GEYJ100	10	1 1
R31	ERJ3GEYJ103	10K	1	R105	Not Used		
R32	Not Used			R106	ERJ3GEYJ820	82	1 1
R33	ERJ3GEYJ222	2.2K	1 1	R107	ERJ3GEYJ220	22	1
	Not Used		1 1	R108	ERJ3GEYJ101	100	1
R37	ERJ3GEY0R00	lo	1 1	R109	Not Used	1'00	1 ' 1
	ERJ3GEYJ105	1M	lil	11103	NOT OSEC		1 1
,	ERJ3GEYJ102	· I		R110	ERJ3GEYJ102	1K	1 . 1
กงษ	ENJOGETJ102	1K	1 ' 1		1	112	1
			1 1	R111	Not Used	1	1
	Not Used	i i	1 1	R112	ERJ3GEYJ102	1K	1 1
· · · · · · · · · · · · · · · · · · ·	ERJ3GEYJ100	10	1 1	R113	ERJ3GEYJ102	1K	1 1
R42	ERJ3GEYJ100	10	1 1	R114	Not Used	ļ	1
R43	Not Used		1 1	R115	Not Used		
R44	ERJ3GEYJ100	10	1 1	R116	ERJ3GEYJ224	220K	1 1 1
	ERJ3GEYJ100	10	1 1	R117	ERJ3GEYJ271	270	1 1
	ERJ3GEYJ102	1K		R118	ERJ3GEYJ392	3.9K	
	ERJ3GEYJ102	1K	1 1	R119	Not Used		1 '
	ERJ3GEYJ102	1K	1 1	1	1	1	1
		5	1 1	D100	DO4D40V 1000		1 .
R49	ERJ3GEYJ102	1K	1 1	R120	PQ4R10XJ000	0	!
		1	1 1	R121	PQ4R10XJ000	0	1 1
	Not Used	1	1 1	R122	Not Used] [
	ERJ2GEJ124	120K	1 1	R123	ERJ3GEYJ102	1K	1 1
R52	Not Used	1 .	1 1	R124	ERJ3GEYJ102	1K	1
	ERJ2GEJ563	56K	1 1	R125	ERJ3GEYJ102	1K	1 1 1
	Not Used	1		R126	ERJ3GEYJ102	lık	1 1
	ERJ3GEYJ273	27K	1 1	R127	ERJ3GEYJ102	1K	1 1
	Not Used	 ''] ' [R128	ERJ3GEYJ000	0	
		15K	1 1			ľ	1 '
	ERJ2GEJ153	low.	'	R129	Not Used		1
	Not Used	1		1	L	l	
R59	Not Used			R130	ERJ3GEYJ562	5.6K	1 1
		1		R131	ERJ3GEYJ000	0	1 1
R60	ERJ3GEYJ102	1K	1	R132	ERJ3GEYJ000	0	1 1
	ERJ3GEYJ102	1K	1 1	R133~139	Not Used		1 1
	ERJ3GEYJ222	2.2K		1			
	ERJ3GEYJ334	330K	l i l	R140~148	Not Used	İ	<u> </u>
		-		R149	ERJ3GEYJ183	18K	.
	ERJ3GEYJ103	10K	1 1	IU 149	ENUSCETUISS .	ion	1
	ERJ3GEYJ472	4.7K	1 1	D	L	l	į l
	ERJ3GEYJ124	120K	1 1 1	R150~152	INOT Used	Į.	1 1

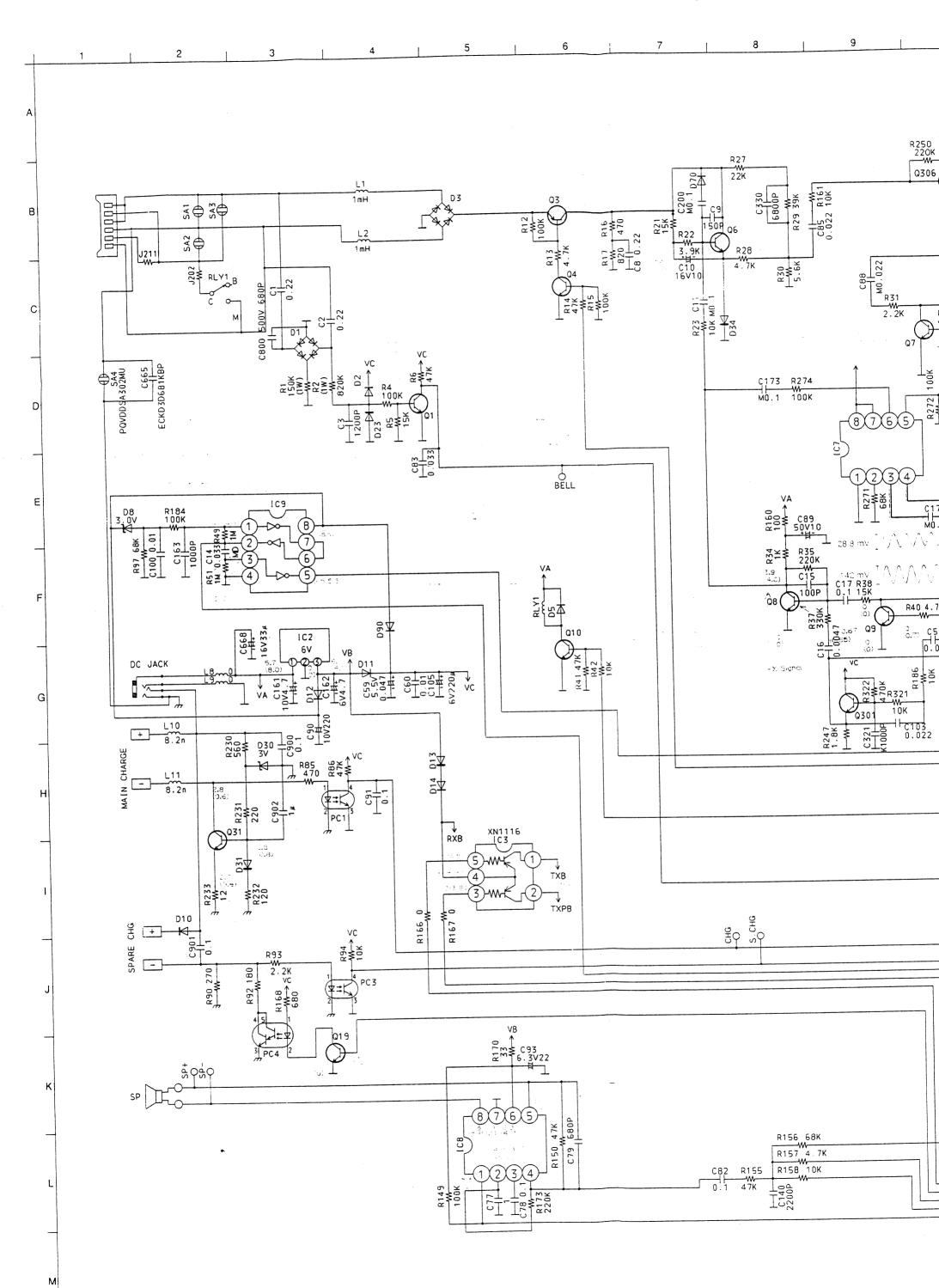
Ref. No.	Part No.	Part No. Value		Pcs/Set	Ref. No.	Part No.	Value		Pcs/Se	
R153	ERJ3GEYJ000	0		1	R329	ERJ2GEJ103	10K		+-	
R154	Not Used	ŀ			1 1		1.0.1		1 '	
R155	ERJ3GEYJ823	82K		1	R330	ERJ2GEJ103	10K		1 1	
R156	Not Used	į.		- 1	R331	ERJ2GEJ103	10K		1 1	
R157	ERJ3GEYJ000	0		1 1	R332	ERJ2GEJ103	10K		1 :	
R158	Not Used	i i			R333	ERJ2GEJ103	10K			
R159	ERJ3GEYJ103	10K		1 1	R334	ERJ2GEJ103	10K		1 1	Į
i					R335	ERJ2GEJ103	10K		1 1	- 1
R160~163	Not Used	- 1			R336	ERJ2GEJ103	10K		1 1	
R164	ERJ3GEYJ184	180K		1 1	11000	L1102GE0103	IUK		1	- 1
R165	ERJ3GEYJ183	18K		i i					1	- 1
R166	ERJ3GEYJ152	1.5K		1 1	1				1	- 1
R167	ERJ3GEYJ562	1		1	1		1		1	ı
R168	ERJ3GEYJ000	5.6K		1			(CAPACITORS)			- 1
R169	1	0		1 1	C1	ECST0GX476	46		1	ı
11109	ERJ3GEYJ000	0		1 1	C2	ERJ3GEYJ392	3.9K		l 1	- 1
D170					C3	PQCUV1E104MD	0.1		1 1	- 1
R170	Not Used			1 1	C4	PQCUV1E104MD	0.1		1 1	- 1
R171	Not Used	ı		1 1	C5	ECUV1H123KBV	0.012		1 1	- 1
R172	ERJ3GEYJ222	2.2K		1 1	C6	ECUV1H123KBV	0.012		li	- 1
R173	ERJ3GEYJ101	100		1 1	C7	PQCUV1C224ZF	0.22	s	1 ;	- 1
R174	ERJ3GEYJ222	2.2K		1 1	C8	ECST0JY106	10	s	1	- 1
R175	ERJ3GEYJ102	1K		1 1	C9	ECST0JY335	3.3			-1
R176	ERJ3GEYJ104	100K		1 1 1	1		0.0		1	-
R177	ERJ3GEYJ152	1.5K		1 1	C10	PQCUV1E104MD	0.1		1 .	-
R178	ERJ3GEYJ000	0		1 1	C11	ECST0GY226	22		1	-
R179	ERJ3GEYJ102	1K		1 1	C12	PQCUV1E104MD	0.1	_	1 1	
1	1	ł			C13	ECUV1H220JCV	22P	s	1 1	1
R180	ERJ3GEYJ824	820K	•	1 1	C14	ECUV1H180JCV	1		1	1
R181	ERJ3GEYJ681	680		1 1	C15	ECUV1H102KBV	18P		1 1	1
R182	ERJ3GEYJ102	1K		1 1	C16	ECUV1H153KBV	0.001	_	1 1	-
R183	ERJ3GEYJ103	10K		1 1	C17	ECUV1H153KBV	0.015	S	1	
R184~189	Not Used	1		1 ' 1	C18		0.015	S	1 1	
		1		1 1	C19	ECUV1H101JCV	100P		1	1
R190~194	Not Used	I		1 1	1019	ECUV1H102KBV	0.001		1	1
R195	ERJ3GEYJ000	o		,	loon.	20011141114			I	1
R196	ERJ3GEYJ102	1K			C20	PQCUV1H105JC	1	S	1	1
R197	PQ4R10XJ221	220		1 !	C21	ECUV1H822KBV	0.0082		1	
R198	Not Used	1220		1 1	C22	ECST0JX226	22		1	1
R199	Not Used	1		1 1	C23	PQCUV1E104MD	0.1		1	ı
	1101 0360	l		1 1	C24	PQCUV1E104MD	0.1		1	1
R300	Not Used			1 1	C25	ECUV1H103KBV	0.01	S	1	ı
R301	ERJ2GEJ103	1014		1 . 1	C26	PQCUV1H103KB	0.01	s] 1	1
R302	ERJ2GEJ103	10K			C27	PQCUV1H223MD	0.022		1	1
R303	ERJ2GEJ103	10K		1 1	C28	ECST0JY475	4.7		1	
R304		10K] 1	C29	ECST0JY106	i	s	1	1
R305	ERJ2GEJ103	10K		1 1	i					ı
R306	ERJ2GEJ103	10K] 1]	C30	ECST0JY475	4.7		1	ı
	ERJ2GEJ103	10K		1 1		PQCUV1E104MD	0.1		1 ;	ı
	ERJ2GEJ103	10K		1 1		ECST0JY106	10	S	li	ı
	ERJ2GEJ103	10K		1 1	C33	PQCUV1E104MD	0.1	Ŭ	i	ı
R309	ERJ2GEJ103	10K		1 1	C34	PQCUV1H105JC	1	s	1	1
		j.		ł li		PQCUV1H105JC	1	S		ı
	ERJ2GEJ103	10K] 1 []		ECST0JY106		s	1	
	ERJ2GEJ103	10K		1 1 1		PQCUV1E104MD	0.1	0	1	1
	ERJ2GEJ103	10K		1 1		PQ4R10XJ000	0.1		1	1
R313	ERJ2GEJ103	10K		1 1		Not Used	ľ		1	ı
314	ERJ2GEJ103	10K		1 1		1101 0360		1		ĺ
315	ERJ2GEJ103	10K		i	C40	ECUV1H180JCV				ı
1316	ERJ2GEJ103	10K		i			18P	ł	1	ĺ
	ERJ2GEJ103	10K				PQCUV1H103KB	0.01	s	1	ĺ
	ERJ2GEJ103	10K				Not Used	i.	ı		ł
	ERJ2GEJ103	10K				PQCUV1E104MD	0.1	S	1	
i i	2.102020100	1 OK				ECUV1H104ZFV	0.1	S	1	ĺ
320	ERJ2GEJ103	10K				ECUV1H103KBV	0.01	s	1	
	ERJ2GEJ103	l .				Not Used		J	ļ	
I	ERJ2GEJ103 ERJ2GEJ103	10K		1 1		ECEA0JK221	220	s	1	
		10K				Not Used		i	1	
	ERJ2GEJ103	10K		1 6	C49 [E	ECST0GY226	22	I	1	
1	ERJ2GEJ103	10K		1	- 1		1]	. 1	
	ERJ2GEJ103	10K	i	1	C50 E	ECST0JY106	10	s	1	
	ERJ2GEJ103	10K		1 1		CST0GY226	22	٦	1	
327	ERJ2GEJ103 ERJ2GEJ103	10K 10K				Not Used	126	l	']	

Ref. No.	Part No.	Value		Pcs/Set	Ref. No	. Part No.	Value		Pcs/Se
C60	Not Used						RF UNIT PARTS		
C61	ECUV1H180JCV	18P		1	L				
C62 C63	ECSTOJX226	22	_	1 1	PCB200	PQLP10154S	P.C.BOARD ASST (RTL)		1
C64	PQCUV1H683MD PQCUV1H105JC	0.068	S						
C65	PQCUV1H473MD	0.047	S	1					ł
C66	ECST0JY106	10	_	1			(ICS)		1
C67	PQCUV1H105JC	110	S	1 1	IC201	PQVIM64084GP	IC		1
C68	PQCUV1H105JC	li	S	1 1	IC202	PQVIPC2746TE	IC		1
C69	PQCUV1H105JC	i	S	1 1					
C70	PQCUV1H105JC	1	S	-1	Q201	2SC4099NT106	(TRANSISTORS) TRANSISTOR(SI)		1
C71	ECUV1H222KBV	0.0022		1 1	Q202	2SC4099NT106	TRANSISTOR(SI)		j
C72	Not Used	1]	Q203	2SC4571R77	TRANSISTOR(SI)	s	1
C73	Not Used			i i	Q204	2SC3356R24	TRANSISTOR(SI)		1
C74	ECUV1H680JCV	68P		1	Q205	2SC4571R77	TRANSISTOR(SI)	s	1
C75	Not Used	1		1	Q206	2SC4226R24	TRANSISTOR(SI)		1
C76	ECUV1H153KBV	0.015	S	1	1	Į			
C77	ECST0JX226	22		1					
C78	PQCUV1H105JC	1	s	1	1	1	(COILS)		
C79	Not Used	. [.]	L201	PQLQR2N1R0KT	COIL		1
		1			L202	PQLQR2N1R0KT	COIL		1
C80	PQ4R10XJ000	0		1	L203	PQLQR2M4N7K	COIL		1
C81	PQCUV1H105JC	1	S	1	L204	MQLRE10NJF	COIL		1
C82	PQCUV1H105JC	1	S	1	L206	MQLRE12NJF	COIL	- 1	1
C83~99	Not Used	• •			L207	MQLRE10NJF	COIL	-	1
0400	20012111111				L208	MQLRE10NJF	COIL	- 1	1
C100	PQCUV1H105JC	1	S	1	L209	PQLQR2M4N7K	COIL	ı	1
C101~199	Not Used				L210	PQLQR2M4N7K	COIL	ŀ	1
	EOLD/41400DOV	400	_		L213	PQLQR2M4N7K	COIL	- 1	1
C200	ECUV1H100DCV	10P	S	1	L220	MQLRE10NJF	COIL		1
C201 C202	ECUV1H104ZFV	0.1	s	1	L221	PQLQR2M8N2KT	COIL		1
	ECUV1H561JCV	560P	ļ	1	C233	MQLRE10NJF	COIL	-	1
J1	ECUV1H222KBV	0.0022		1	ļ		(OSCILLATORS)		
					VC0201	PQV022Z	OSCILLATOR	ı	1
			l		VC0202	PQV021Z	OSCILLATOR	- 1	1
			- 1		1				·
								- 1	
			1	- 1	F004		(SAW FILTERS)	- 1	
			- 1	- 1	F201	PQVCM21M8PJ2	CERAMIC FILTER	- 1	1
		·	- 1		F202 F203	PQVSM914E11L	CERAMIC FILTER		1
	•			- 1		PQVSM959E11L	CERAMIC FILTER		1
					F204	EZFN959AM01	CERAMIC FILTER		1
							(OTHERS)		
			1	1	VC201	PQCVTZB10ZA	TRIMMER CAPACITOR	- 1	1
i	,				X201	PQVC01280N4Z	CRYSTAL OSCILLATOR	- 1	i
			- 1	l	CN201	PQJS10A82Z	CONNECTOR	ı	1
l				•	1	'		- 1	
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- 1				. [ERJ3GEYJ100	10	1	1
						ERJ3GEYJ150	15		1
il						ERJ3GEYJ102	1K		1
3						ERJ3GEYJ153	15K		1
1						ERJ3GEYJ153	15K		1
- 1						ERJ3GEYJ563	56K	ı	1
i					こしつハブ し	ERJ3GEYJ470	47		
.]	į			f			T Company of the Comp		1
					R208	ERJ3GEYJ104 ERJ3GEYJ272	100K 2.7K		1 1

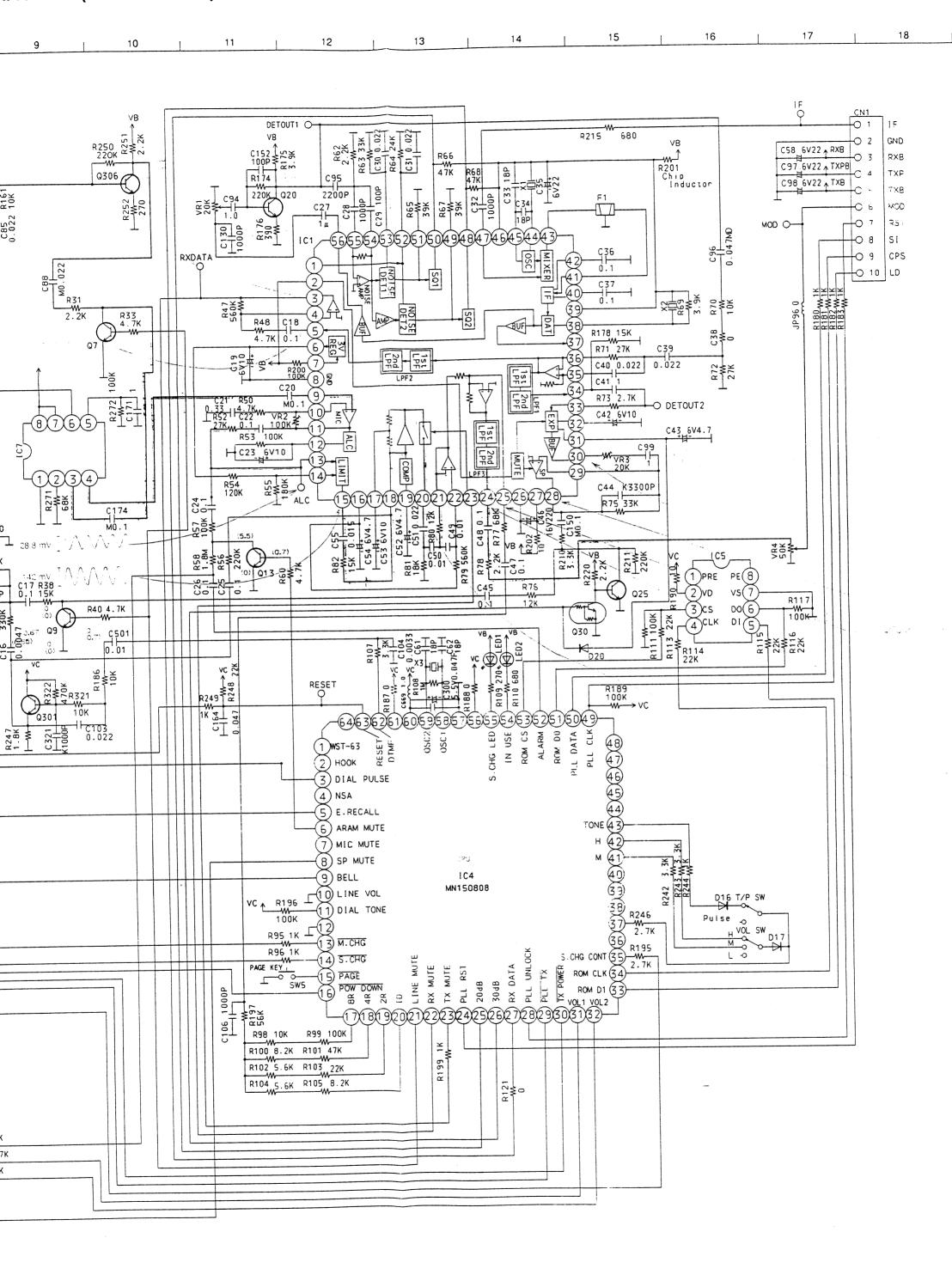
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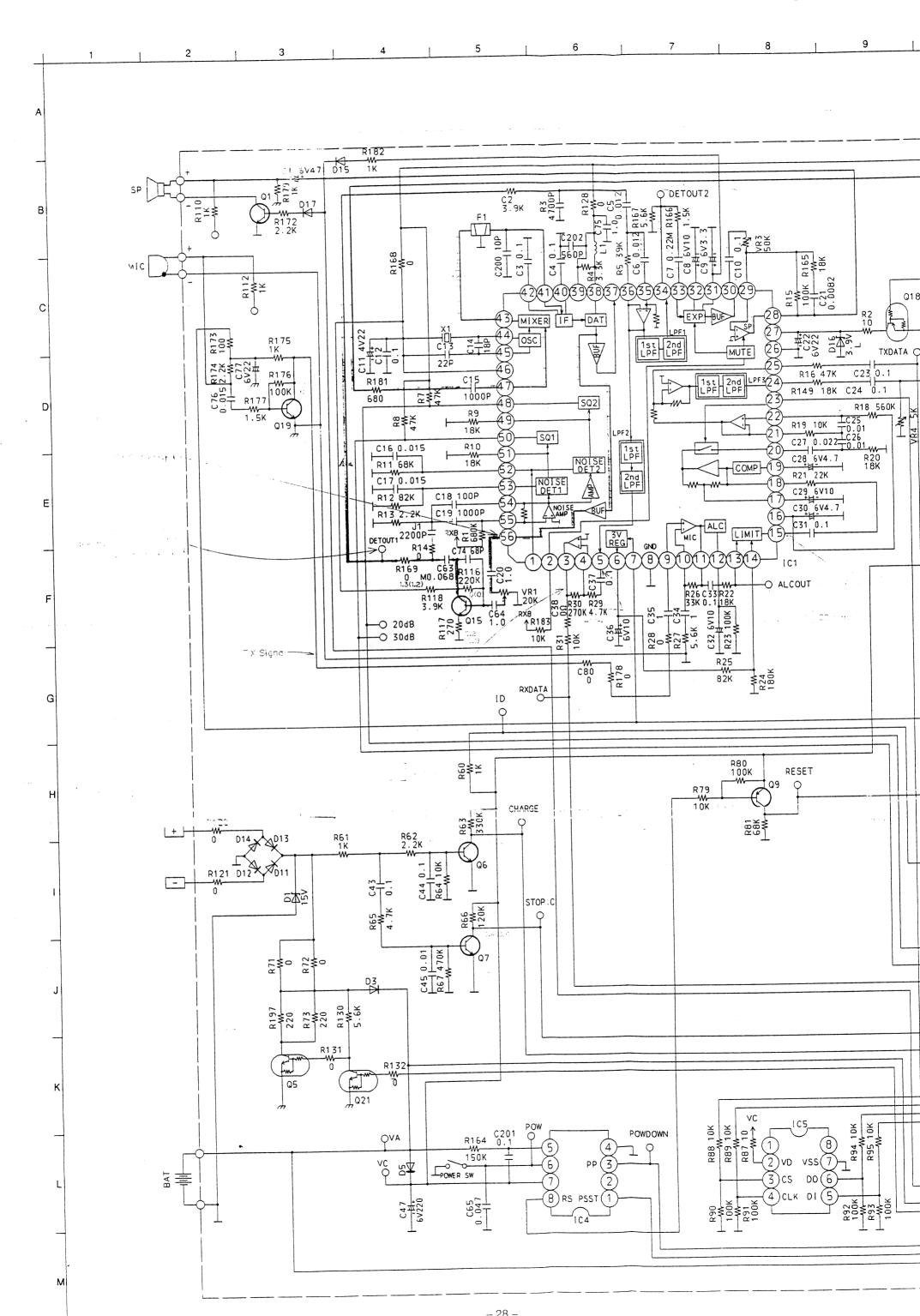
Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	T	Value	Pcs/Set
R210	ERJ3GEYJ104	100K	1	C220	ECUV1H020CCV	2P		1
R211	ERJ3GEYJ122	1.2K	1 1	C221	Not Used			l
R212	ERJ3GEYJ561	560	1 1	C222	ECUV1H100DCV	10P	S	1
R213	ERJ3GEYJ470	47	1 1	C223	ECUV1H270JUV	27P	14.00	. 1
R214	ERJ3GEYJ104	100K	1 1	C224	ECUV1H270JUV	27P		1
R215	ERJ3GEYJ561	560	1 1	C225	Not Used	ì	W. T.	
R216	Not Used		l . I	C226	Not Used	1		
R217	Not Used		l 1	C227	ECUV1H102KBV	0.001		1
R218	ERJ3GEYJ000	О	1 1	C228	ECUV1H040CCV	4P		1
R219	ERJ3GEYJ123	12K	1	C229	ECUV1H102KBV	0.001		1
R220	ERJ3GEYJ470	47	1	C230	ECUV1H040CCV	4P		1
R221	ERJ3GEYJ100	10	1 1	C231	Not Used	1		•
R222	ERJ3GEYJ103	10K	1,1	C232	ECUV1H102KBV	0.001	,	1
R223	ERJ3GEYJ683	68K	1	C234	Not Used			
R224	ERJ3GEYJ683	68K	1	C235	ECUV1H101JCV	100P		1
R225	ERJ3GEYJ470	47	1	C236	Not Used	1,001		'
R226	ERJ3GEYJ470	47	i	C237	Not Used		A	
R227	ERJ3GEYJ100	10	i	C238	ECUV1H040CCV	4P		
R228	ERJ3GEYJ561	560		C239	ECUV1H020CCV	2P		1
R229	ERJ3GEYJ560	56		O239	LOGV INOZOCCV	2		. 1
1, 223	L. 1000E 10000		' -	C240	ECTIVATION CON	4P		
R230	ERJ3GEYJ563	56K	,	C240 C241	ECUV1H040CCV			1
1	1	I I	1		ECUV1H102KBV	0.001]	1
R231	ERJ3GEYJ153	15K	1	C242	ECUV1H102KBV	0.001		1
R232	ERJ3GEYJ153	15K	1	C243	Not Used		ļ	
R233	ERJ3GEYJ470	47	1	C244	ECUV1H102KBV	0.001		1
R234	ERJ3GEYJ100	10	1	C245	ECUV1H101JCV	100P	. 1	1
R235~239	Not Used		1	C246	ECUV1H020CCV	2P	, 1	1
L	L	[C247	ECUV1E104ZFV	0.1	s	1
R240	ERJ3GEYJ272	2.7K	1	C248	Not Used		l	
R241~259	Not Used			C249	ECST0JX226	22	s	1
R260	Not Used			C250	Not Used			:
R261	ERJ3GEYJ000	0	1	C251	ECUV1H102KBV	0.001	1	1
R262~269	Not Used		1	C252	ECUV1C224KB	0.22	• • •	1
	1]	1	C253	ECUV1H562KBV	0.0056		1
R270	ERJ3GEYJ000	0	1 1	C254	ECUV1H562KBV	0.0056	ł	1
				C255~259	Not Used		}	
				C260	Not Used			j
	1]	1	1 1	Not Used		1	
	l		- 1	1	ECUV1H101JCV	100P		1
			ſ					ı
				L205	ECUV1H101JCV	100P	ļ	1
	,	·		.				İ
		(0.17.10)7070)						
C200	FOLINALIAN ION	(CAPACITORS)	_				j	- 1
C200	ECUV1H101JCV	100P	1					į
	Not Used	-	. 1]				
C202	ECST0JX226	22 S	1					1
C203	PQCUV1C105ZF	1	1	1 1				I
C204	ECUV1H101JCV	100P	1	j				l
C205	ECUV1H332KBV	0.0033	1					
C206	ECUV1H472KBV	0.0047	1	1			1	j
C207	ECUV1H332KBV	0.0033	1					1
	ECUV1H332KBV	0.0033	1]				1
C209	ECUV1E104ZFV	0.1 S	1					i
C210	ECUV1H103KBV	0.01	, [ļ
	ECSTOJX226	22 S	1	j			1	l
	ECUV1H103KBV	0.01	1	1			1	Ī
] !			ļ	ŀ
. 1	ECUV1H101JCV	100P	1				[Ĭ.
	Not Used	1.5		1 1			1	
	ECUV1H040CCV	4P	1	1 1				I
	ECUV1H103KBV	0.01	1	1				- 1
_	ECUV1H270JCV	27P	1] [İ	i
	ECUV1E104ZFV	0.1 S	1	1			į	- 1
C219	Not Used] [l
	<u> </u>							

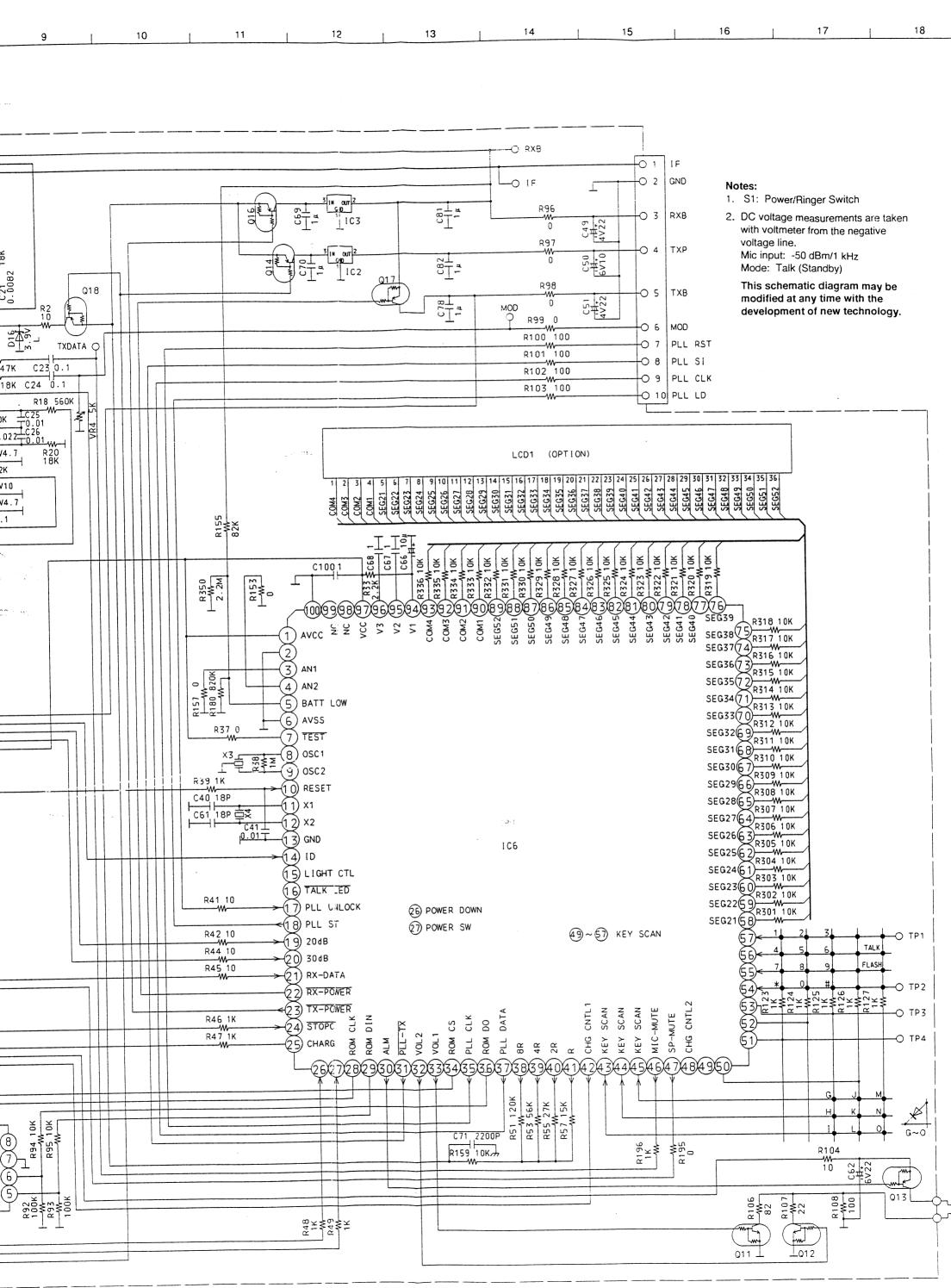
Ref. No.	No. Part No. Part Name & Description Pcs/S					
	·* · · · · · · · · · · · · · · · · · ·	KX-T9310DM				
		ACCESSORIES				
A1	IKX-A35G-1	IAC ADAPTOR	<u>1</u>			
A2	PQJA10032Z	TELEPHONE CORD	1			
A3	PQKC10003Z1	BELT CLIP S	3 1			
A4	PQKK10045Z1	BATTERY COVER S (for BASE UNIT)	3 1			
A5	PQKK10046Z1	BATTERY COVER S	i 1			
		(for PORTABLE UNIT)				
A6	PQQX11657Z	INSTRUCTION BOOK	1 1			
A7	T GGAT 10572	mornoonen beek	1 '			
A8	PQQT11240Z	TEL CARD LABEL	1			
		PACKING MATERIALS				
P1	PQPP10076Z	PROTECTION COVER	1			
		(for BASE UNIT)				
P2	XZB10X25A02	PROTECTION COVER	1			
		(for PORTABLE UNIT)				
P3	PQPN10362Z	INNER BOX	1			
P4	PQPN10363Z	ACCESSORY BOX	1			
P5	PQPK12187Z	GIFT BOX	1			
	.1	FIXTURE AND TOOL				
	Incariovica	TEVERNOUS CORP. 465	T 0			
Z1	PQZZ10K13Z	EXTENSION CORD, 10P	2			
Note:						
	 13Z is neccessity fo	l or servicing.				



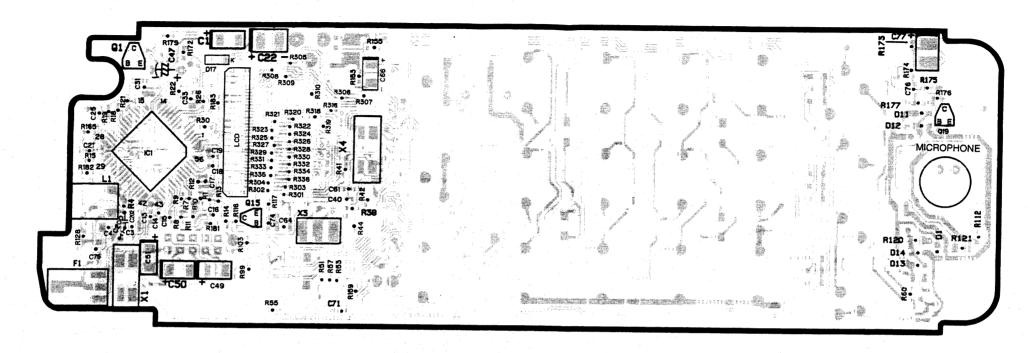
- 26 **-**

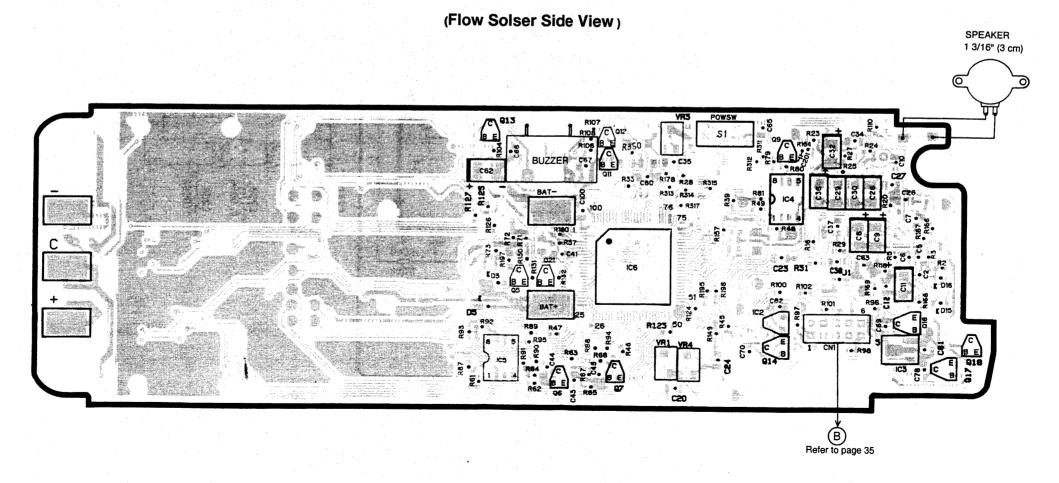






(Component View)





1

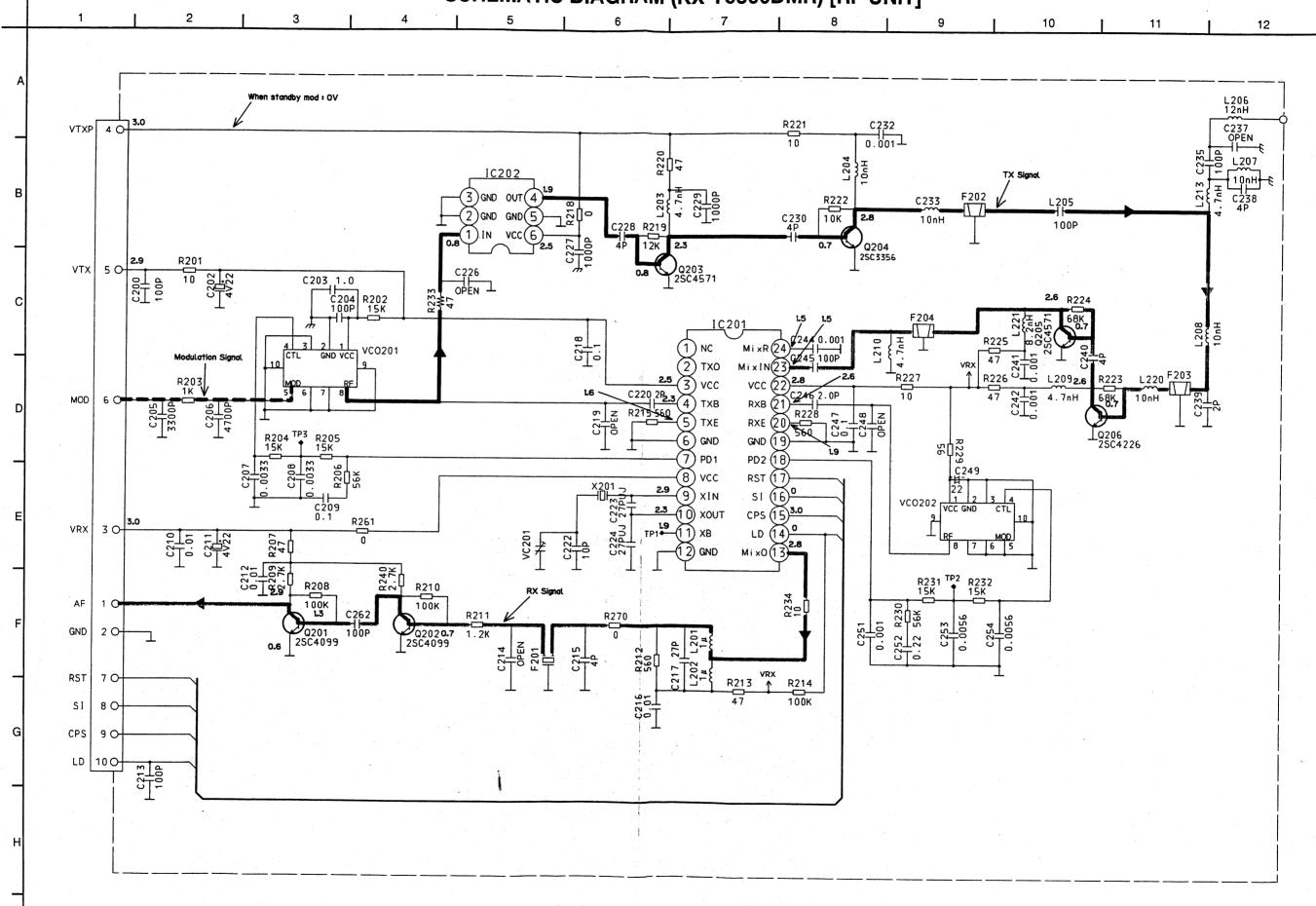
10

11

12

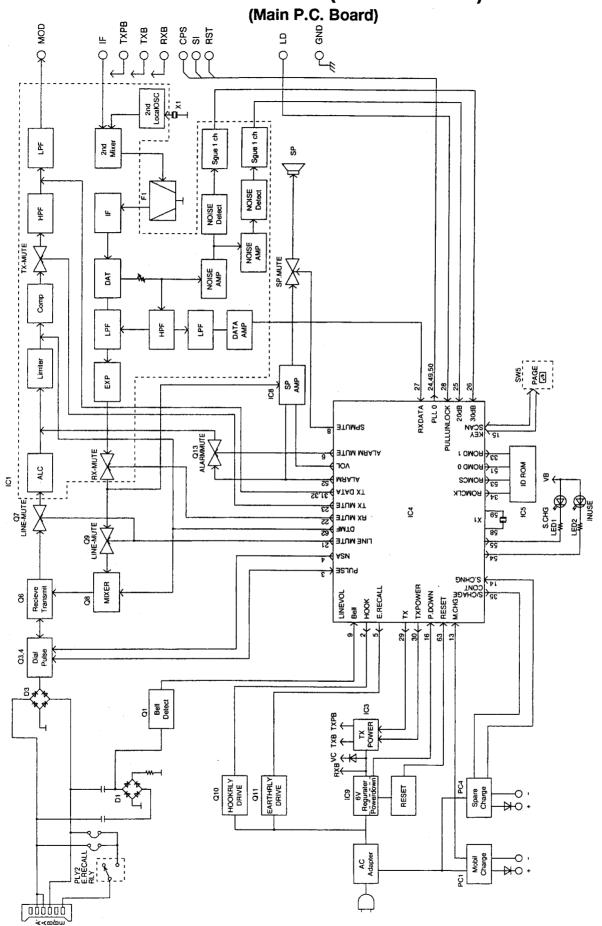
KX-T9300DM KX-T9300DM

SCHEMATIC DIAGRAM (KX-T9300DMR) [RF UNIT]

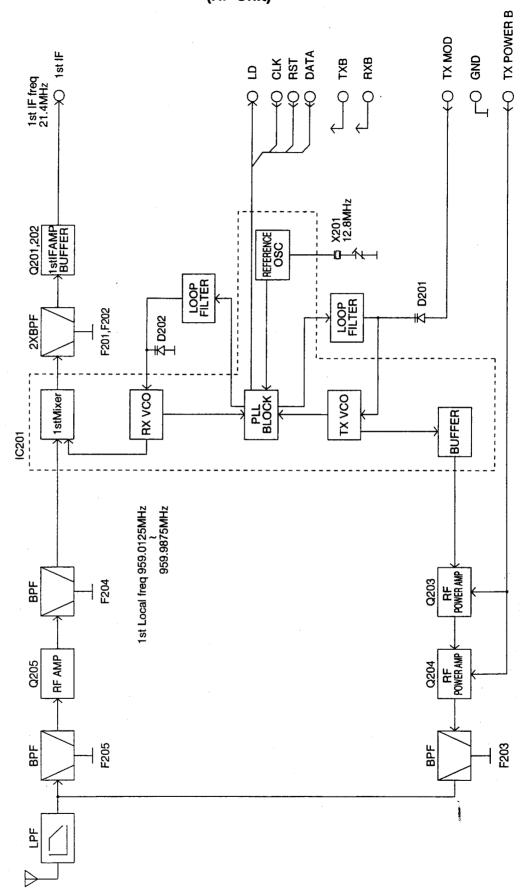


CIRCUIT BOARD (KX-T9300DMR) [RF UNIT] x201 C202 F270 В VC201 8229 °C21 VC0201 C237 L206 L213 C238 207 N R211 R210 C213 C N 201 9 C553 •C555 C206 C205 8128 -•R205 C253 R230 R228 0205 R227. C218 R226 L209 C233• G Н

BLOCK DIAGRAM (KX-T9300DMH)



BLOCK DIAGRAM (KX-T9300DMH) (RF Unit)



TX freq 959.0125MHz

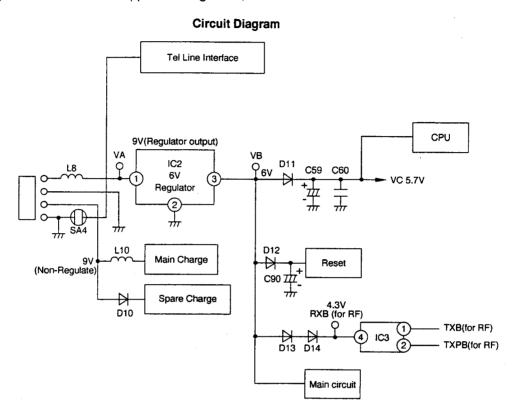
959.9875MHz
RX freq 914.0125MHz
914.9875MHz

NEW CIRCUIT OPERATION (KX-T9300DMH)

Main Unit

1. Power Supply Circuit

The voltage DC 9 V (regulate output), DC 9 V (non-regulate output) are supplied to the DC jack from the AC adaptor. The 9 V regulate output is supplied to the line interface circuit and IC2 (6 V regulater). The voltage through IC2 is stabilized to 6 V is supplied to the reset circuit and main circuit. The power for CPU is supplied through D11 at 5.7 V. The power for RF unit is supplied through D13, D14 at 4.3V.



2. Charge Circuit

2-1. Portable Handset Power Circuit

The Charge current flowing through L10 is supplied.

For detection of CHARGE, the voltage fluctuation of R85 is detected by PC1 and then CHARGE is judged by pin ③ of the CPU IC4 after it flows through PC1.

Charged → IC4 pin [®] Low

Not Charged → IC4 pin ¹³ High

2-2. Spare Charge Circuit

The spare charge current flows through D10 and then recharged.

The spare charge is detected by PC3 and judged by pin @ of the CPU IC4.

Charged → IC4 pin¹ Low

Not Charged → IC4 pin[®] High

15 hours after it is charged, the trickle charge mode is set. At this time, PC4 is turned OFF, Q19 is turned OFF, and the current does not flow through R92 to suppress the recharging current.

3. Bell Detector Circuit

When the Bell signal is input between A/B, the signal of which waveform is shaped through $C2 \rightarrow R2 \rightarrow Q1$ is input to pin 9 of the CPU IC4.

When the CPU detects the Bell signal, pin ⁶⁹ repeats High/Low fluctuation and then LED2 in use is flashed. At this time, if the portable handset is charged, the base unit's ringer is on.

If the portable handset is not charged, the data signal generated by pins ① – ② of the CPU is sent to the portable handset through RF and then the portable handset's ringer is on.

4. Line Interface

The line is looped when pin 3 of the CPU becomes High and Q4 and Q3 are ON. The looped current flows through A \rightarrow D3 \rightarrow Q3 \rightarrow Q6 \rightarrow R24 \rightarrow R25 \rightarrow R26 \rightarrow D3 \rightarrow B.

5. Reception Voice Switch

The received voice signal is input to pin of IC1 (microphone AMP input) through Q6, Q18 from the line, and flows through pin (limiter AMP input), pin (compounder input) and pin (high-pass filter input), then through the IC's low-pass filter of IC1 (that cuts off 4 kH), and is output to the RF unit.

The alarm, DTMF monitoring, and data signals are input to pin ② of IC1 through the resistors and capacitors from each microcomputer's ports, and output to the RF unit in the same way.

6. Sending-Speech-Signal

The signal received on the RF unit is input to pin@ of IC1 as the 21.4 MHz IF signal, and output from pin@ as the 455 kHz IF signal in the mixer circuit inside IC1. This signal is demodulated by passing through the F1 (455 kHz band pass filter) and output from pin@ as audio signal.

The demodulated audio signal is input to pin®, flows through the LPF (that cuts off 4 kHz) in IC and amplified through the expander, and then output to the line through Q8 from pin®.

7. DTMF Signal

When the DTMF data from the portable handset is received, the DTMF signal is output from pin @ of the CPU and sent to the line through Q8.

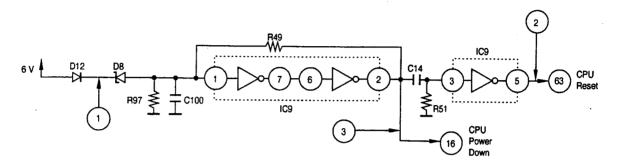
8. RX Data Processing

The received RX data is demodulated like the speech signal, output from pin® of IC1 and sent through the LPF (4 kHz) from pin® . Then it is output from pin⑤ , amplified by the Data AMP of pins③ and④ , input to pin② of the CPU and then detected.

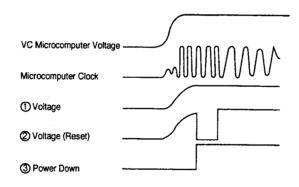
9. Reset Circuit

After the power supply to work is put, the voltage at point ① is raised to the same level of the microcomputer. However, since D8 is 3.3 V Zener, the voltage of RESET stays Low until D8 is turned ON. When D8 is ON, the Power Down becomes High, is done differential calculus by C14, the output of the RESET becomes Low for about 20 ms, then the RESET is activated.

Circuit Diagram



Timing Chart



10. Electric Field Detection Circuit

The electric field detection circuit consists of the noise amplifier and noise detection circuit. This checks if there is electric field using the comparators (SQ2 and SQ1).

The received signal is amplified by the noise amplifier of IC1 @ and @ and if there is much noise, the output of SQ1 and SQ2 becomes High and the CPU judges that there is no electric field.

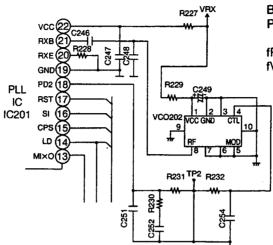
If there is less noise, the output of SQ1 and SQ2 becomes Low and the CPU judges that there is electric field. The 20 dB μ V/m circuit (SQ2) is used for judging squelch. The 30 dB μ V/m circuit (SQ1) is used for weak electric field alarm.

RF Unit

1. Receiver VCO Circuit

This circuit consists of VCO202 (VCO module). The control voltage of pin® of PLL IC is applied to ④ terminal of VCO202 and the oscillation frequency is controlled. The oscillation frequency in the band of 900 MHz is applied to pin® of PLL IC from® terminal of VCO201.

Circuit Diagram



Base Unit: fVCO=fRX-21.4 MHz Portable Handset: fVCO=fRX+21.4 MHz

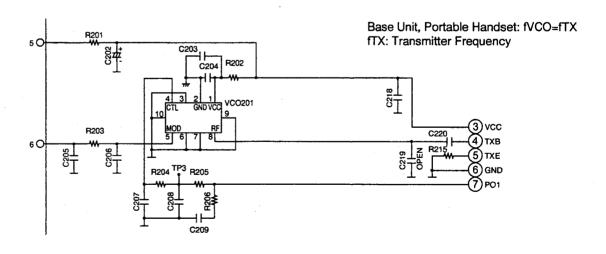
fRX: Receiver Frequency

fVCO: VCO Oscillation Frequency

2. Transmitter VCO Circuit

This circuit consists of VCO201 (VCO module). The control voltage of pin ①of PLL IC is applied to ④ terminal of VCO201 and the oscillation frequency is controlled. The oscillation frequency in the band of 900 MHz is applied to pin ④ of PLL IC from ⑤ terminal of VCO201.

Circuit Diagram

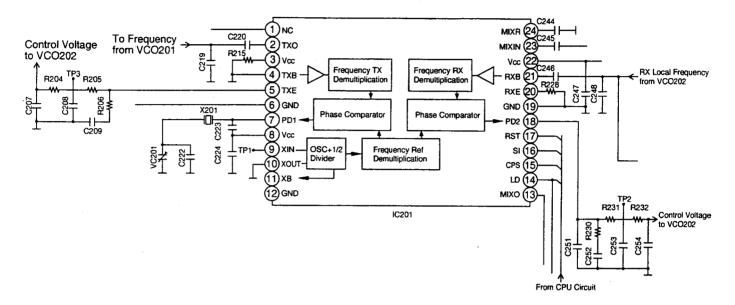


3. PLL Circuit

IC201 includes two PLL circuits for transmission frequency and reception local frequency.

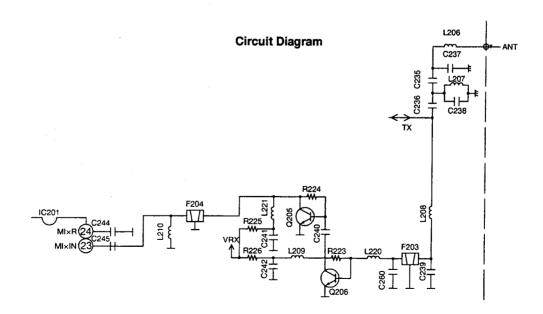
The frequency in the band of 900 MHz supplied from TX VCO and RX VCO, and Ref. OSC frequency (12.8 MHz) are divided into 12.5 kHz frequency controlled by the CPU. The phases of the frequency from TX and RX and the reference frequency are compared each other, the control voltage is supplied to the VCO circuit from pins ⑦ and ⑩ so that the desired TX and RX frequencies are provided. The VCO control signal (TX, RX frequency setting) of the PLL circuit is supplied to CPS pin ⑥, SI pin ⑩ and RST pin ⑰ from the CPU circuit. Also, the locked oscillation frequency of the VCO circuit is supplied to the CPU from pin ⑭ at "L".

Circuit Diagram



4. Receiver RF Circuit

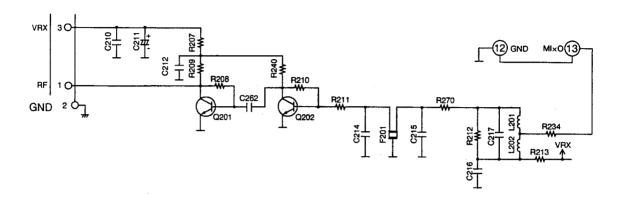
The electric wave received from the antenna is attenuated by the SAW filter F203 except the received frequency band. Then it is amplified by the RF amplifier Q206 and Q205, and supplied to the IC201 pin (20) (MIXER input).



5. MIXER, IF Circuit

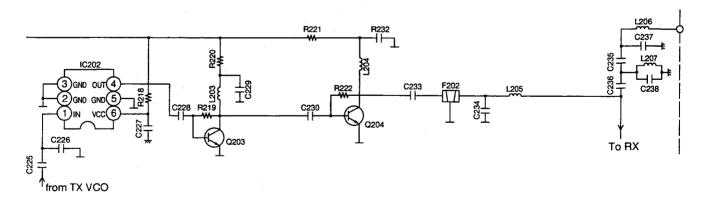
The signal in the received frequency band supplied to IC201 pin (MIXER input) is converted to 21.4 MHz of the 1st IF by the received local signal in the MIXER circuit, and output to pin (3) of MIXO. The resonance circuits of C217, L201 and L202 are resonated to 21.4 MHz. The 21.4 MHz IF signal becomes an element of the ±4.5 kHz band width by the MCF, F201, and is supplied to IF amplifier Q202 and Q201.

Circuit Diagram

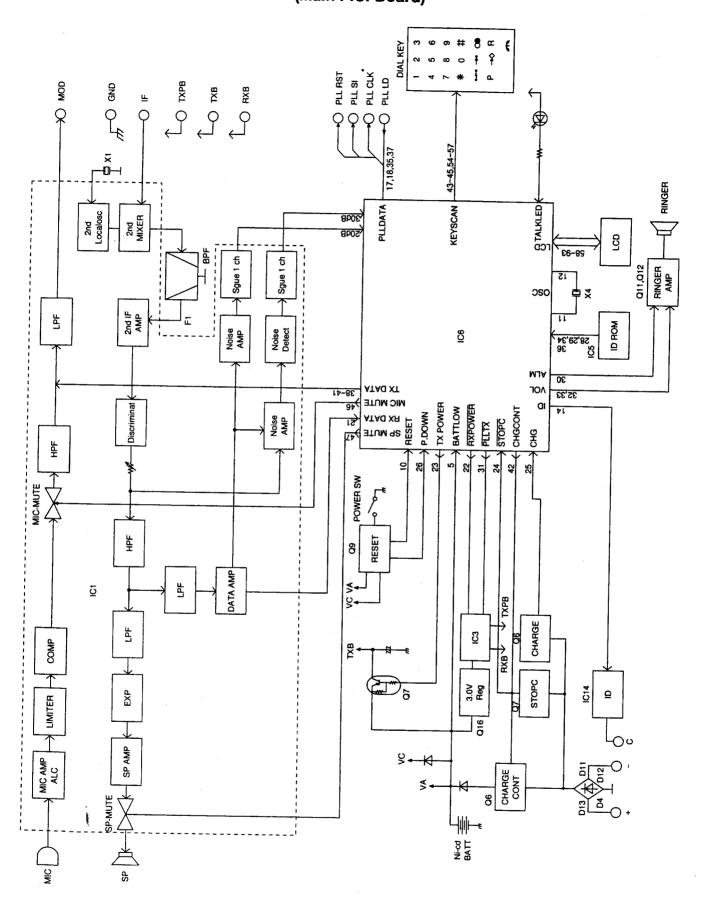


6. TX Power Circuit

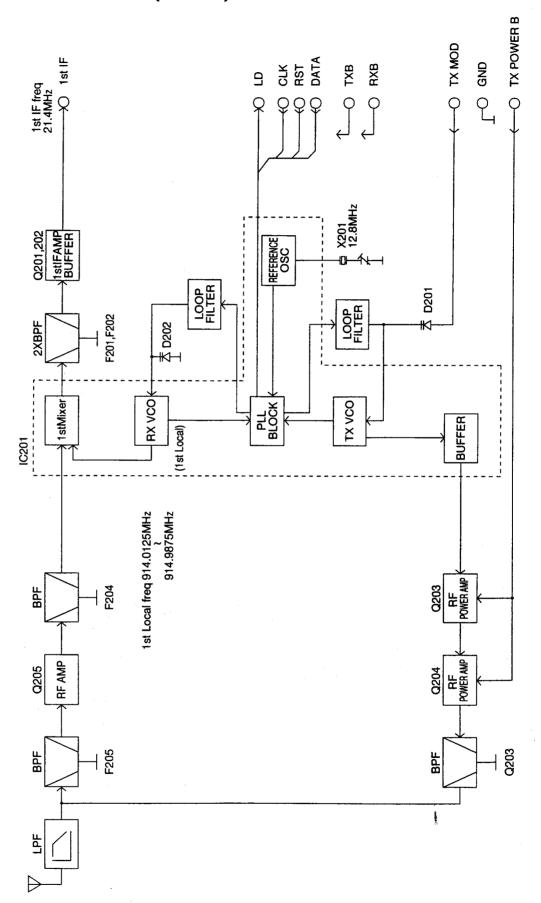
The TX VCO output signal flows through the buffer IC202 and it is supplied to the TX Power Amp., Q203 and Q204. The received signal is attenuated by the band pass filter F202 except its received frequency band. Then it is supplied to the antenna without having any influence on the Receiver RF circuit.



BLOCK DIAGRAM (KX-T9300DMR) (Main P.C. Board)



BLOCK DIAGRAM (KX-T9300DMR) (RF Unit)



NEW CIRCUIT OPERATION (KX-T9300DMR)

RF Unit Section

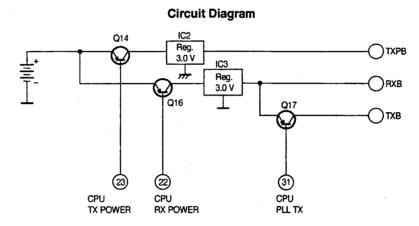
Refer to pages 39~41. (Common use to Base Unit)

Main Unit

1. RF Transmission/Reception Power Supply Circuit

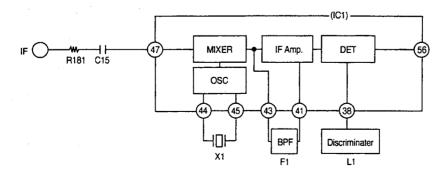
The power source for transmission is switched on and off by the CPU that controls Q14 and Q16 for battery current. It is stabilized to the constant voltage by the 8 V regulator and supplied to the RF unit and IF IC. In the standby mode, Q16 is switched ON and 3 V is supplied to the RXB via IC3 only when pin @ becomes Low.

In the TALK mode, when pins 22 and 33 are set to Low and Q16 and Q17 is switched ON, approx. 3 V is supplied to the RXB and TXB. And then, pin 23 is set to Low, Q14 is ON and 3 V is supplied to the TXPB via IC2.



2. IF Reception Section

The 21.4 MHz IF signal in the band width of \pm 7.5 kHz that was received by the RF unit is input to pin 6 of IC1. It is mixed with the 2nd local frequency of 20.945 MHz and then filtered by F1 so that the 2nd IF frequency of 455 kHz is supplied to the IF Amp. of IC1. The 2nd IF signal is demodulated by the wave detector of IC1 and sent to pin 6 as the audio signal.



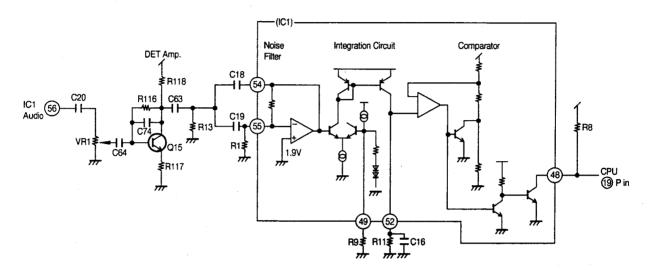
3. Electric Field Detection Circuit

The electric field detection circuit that consists of the DET Amp., IC1's noise filter, integration circuit and comparator detects the electric field by checking noise.

The audio signal output from pin (6) extracts noise of approx. 18 kHz by the noise filter of IC1 after it is amplified by the DET amplifier. After the noise is converted to the De voltage in the integration circuit, it is input to the comparator to gain High and Low outputs.

Pin decides the sensitivity of the integration circuit and pin decides the time constant. In the strong electric field, the De voltage of pin is 0.5 V or less, pin outputs Low. In the weak electric field, the De voltage of pin is approx. 1 V, pin outputs HIGH.

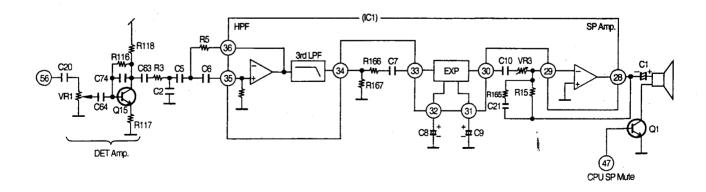
Circuit Diagram



4. Received Data Circuit

The RX Data circuit consists of the HPF, LPF and Data Amp.

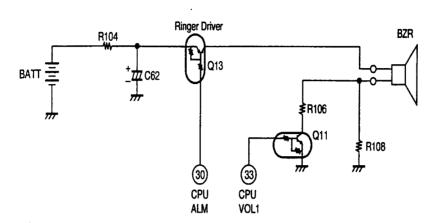
The received RX data is output to pin of IC1 as the audio signal. The data frequency is digital signal of 600~2000 Hz. The data signal output from pin is output from pin as signal of 100~4000 Hz through the HPF of pins and and the LPF in IC1. And then it is amplified in the data amplifier of pins and and detected after it is sent to pin of the CPU.



5. Ringer Circuit

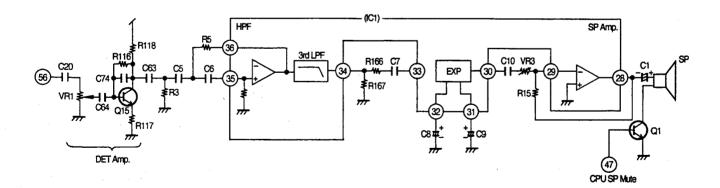
When the Ring signal is received with the power switch of the portable handset ON, the ringer is activated. When the ring signal is received, pin is set to High. After Q11 is turned ON, Q13 is switched on by the ringer frequency in pin and then the buzzer is ON.

Circuit Diagram



6. Reception Signal Circuit

The reception circuit consists of the DET amplifier, and IC1's HPF, LPF, Expander and SP amplifier. The received voice signal is output to pin (a) as an audio signal of 200-2400 Hz via the HPF and LPF of IC1 to eliminate unnecessary elements, after it is amplified by the DET amplifier just the same way for the RX data. The amplified received voice signal is input to the expander from pin (a) because it is the demodulated signal compressed in the base unit. The expanded signal is output to pin (a) and it is amplified by the SP amplifier of pins (a) and (a), and sent to the SP. The transistor Q1 for SP muting functions when it is set to ON while the SP is on. If SP muting mode is selected, Q1 functions when it is set to OFF. Therefore, the CPU controls pin (a) when HIGH is output with the SP on, and LOW is output during muting mode.

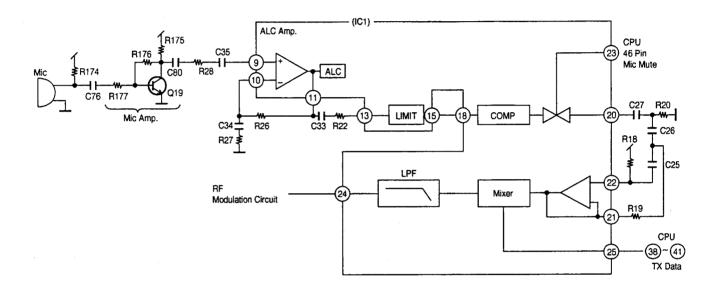


7. Sending Signal

The received voice signal from the microphone is amplified in the microphone amplifier of Q19 and input to the ALC amplifier of IC1. The ALC circuit prevents the received voice signal from being distorted when a large volume signal is input from the microphone. If an input signal level becomes beyond the previously set one, the circuit reduces the Amp. gain in order not to fluctuate the output level by strong input. The LIMIT circuit clips strong signals that are leaked from ALC filtering. The transmitted voice signal output from pin (a) is input to the compressor from pin (a) and amplified. Then, it flows through the MUTE circuit and output to pin (a). This circuit controls the CPU when the signal is Low during calling and High during muting mode. The transmitted voice signal through the MUTE circuit is input to the HPF of pins (a) and (a), and sent to the Mixer circuit in IC1.

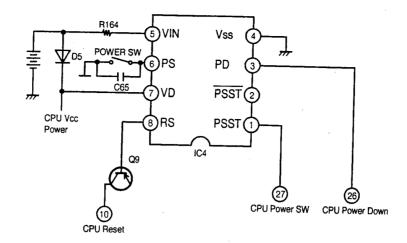
The Mixer circuit mixes the TX data from the CPU with the transmitted voice signal (however, Mic. Mute mode is activated during TX data transmission). Finally, the Mixer output flows through the LPF of 4 kHz cut-off frequency and it is output from pin ②, then sent to the RF modulator.

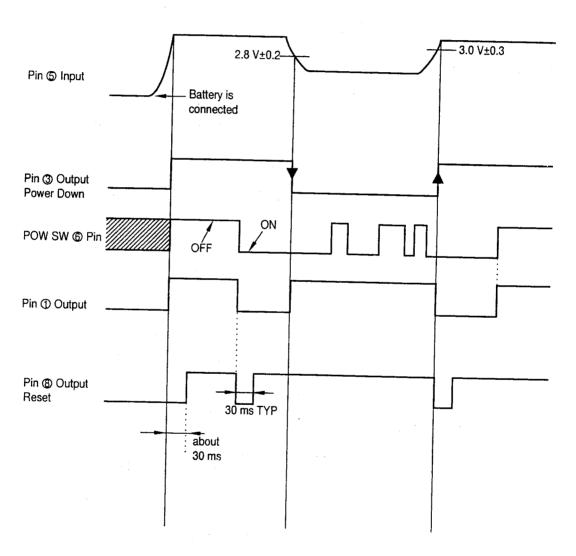
Circuit Diagram



8. Reset Circuit, Power Down Circuit, Power ON/OFF Circuit

IC4 detects RESET, POWER DOWN and POWER ON/OFF.
C65 is desined to avoid the power switch chattering.
R164 is used for Power Down voltage setting. The Power is down at approx. 3.4V.



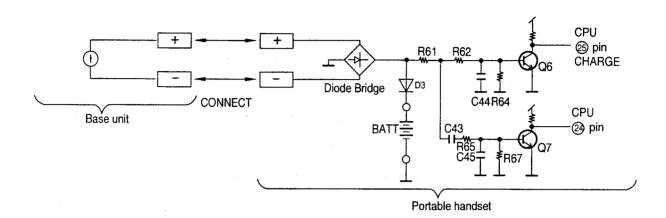


9. Charging Detection, ID Data Detection

If the portable handset is put on the base unit to recharge it, the DC voltage is applied to the charge terminal on the portable unit. At this time, the output of the diode bridge becomes High, and the charging detection signal is output when Q6 is changed from High to Low. Simultaneously, the differentiated signal is input to Q7 via C43 and Q7 outputs a low pulse to the CPU. Each output of Q6 and Q7 is the charging detection signal which the CPU uses when the power switch is on and off.

Battery recharging is carried out by the power supply from the diode bridge.

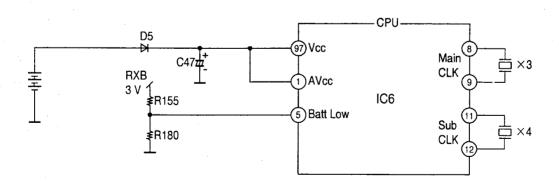
Circuit Diagram



10. CPU Power Supply, Low Battery

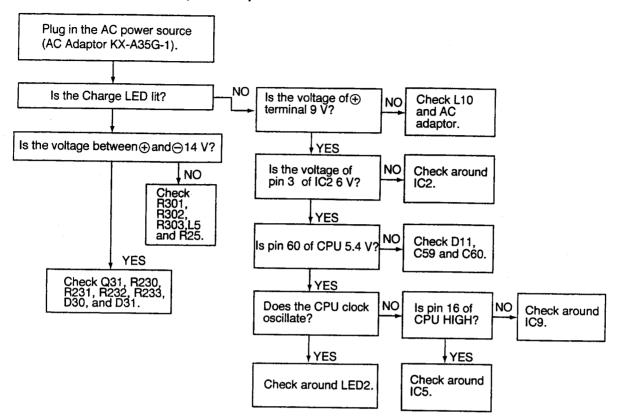
The power supplied to the CPU from the battery via D5.

The CPU detects that the battery is low by comparing the constant voltage of pin (5) with the battery voltage of pin (1). In the standby mode, X4 of the subsidiary clock oscillates at 32.76 kHz. In the operation mode, X3 of the main clock oscillates at 4 MHz.

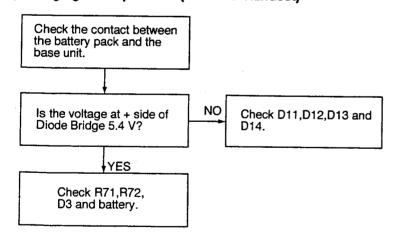


TROUBLESHOOTING GUIDE

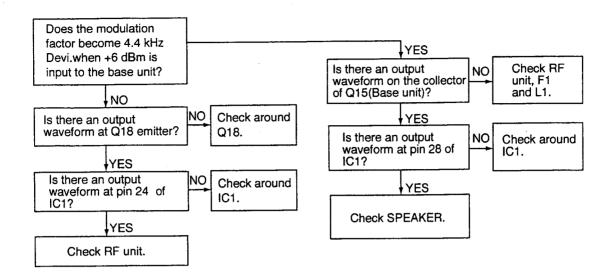
(1) Charging is not possible (Base unit)



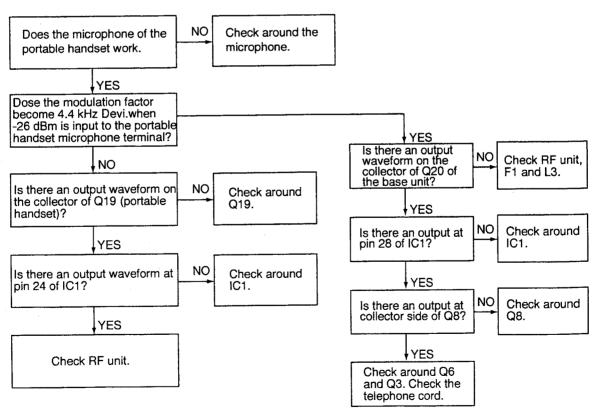
(2) Charging is not possible (Portable Handset)



(3) No voice reception

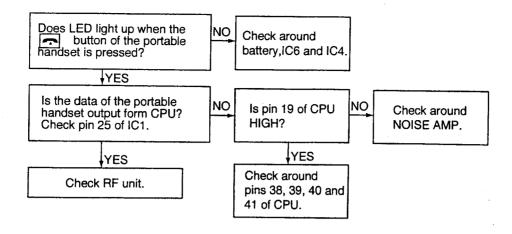


(4) No voice transmission

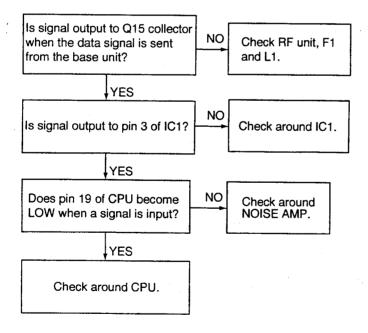


LY-18200DM

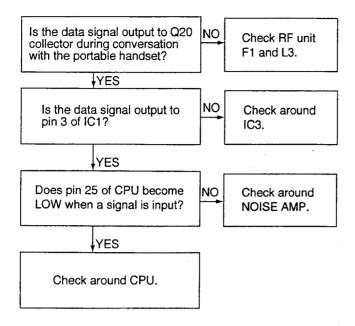
(5) No link (Portable handset TX)



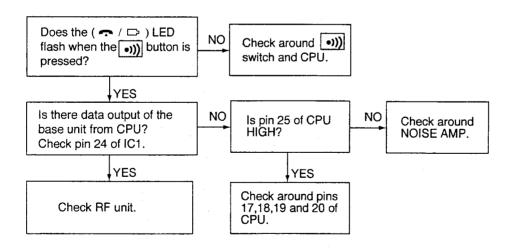
(6) No link (Portable handset RX)



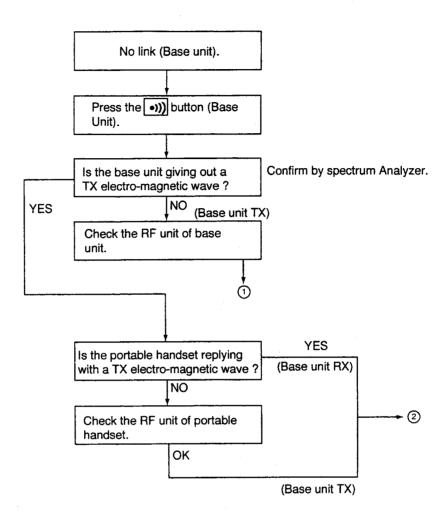
(7) No link (Base unit RX)

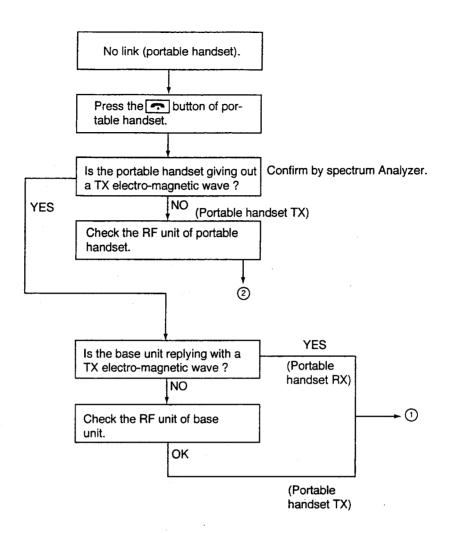


(8) No link (Base unit TX)

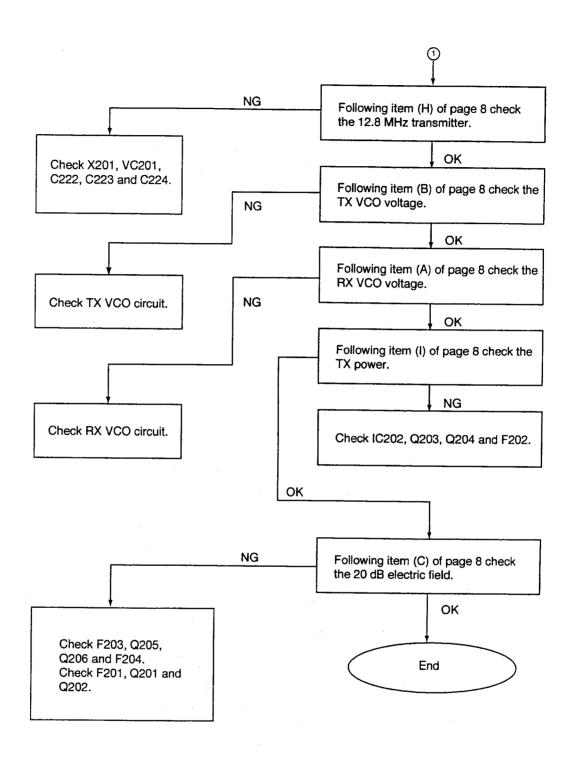


(9) Check whether the RF unit defect is in the portable handset or the base unit.

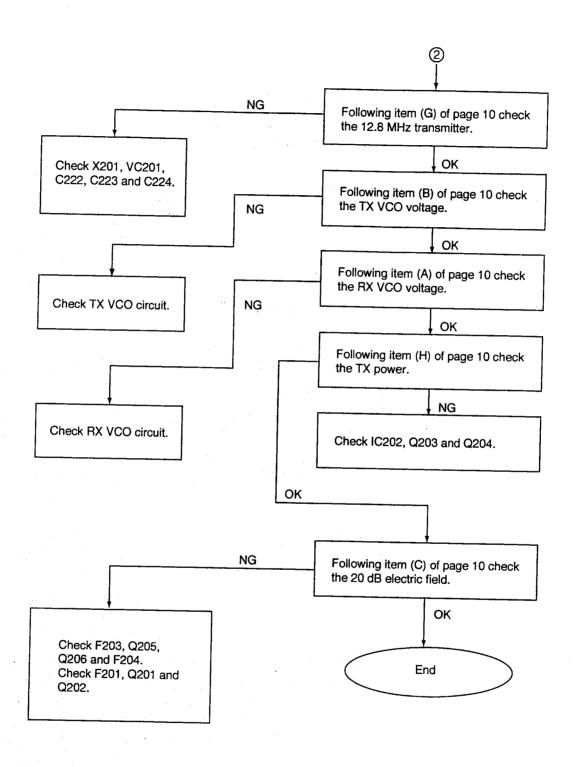




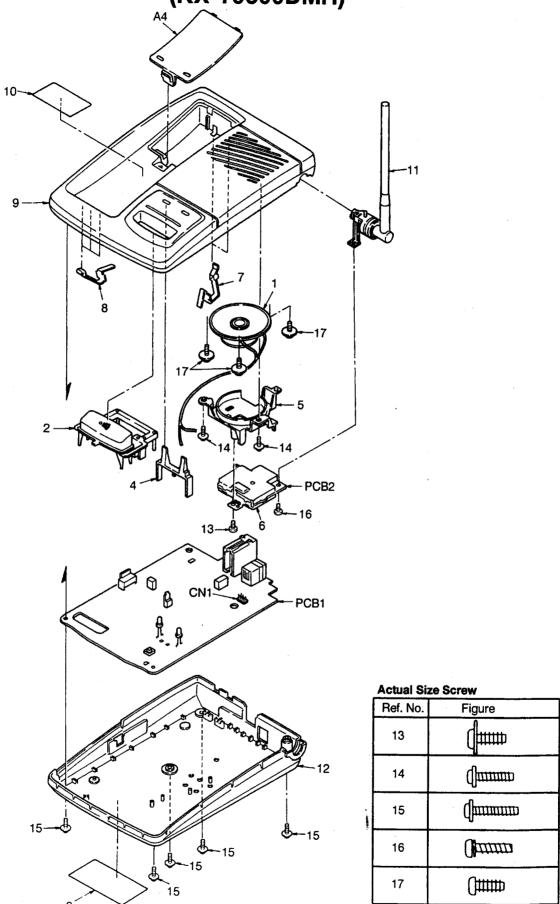
(10) Check the RF unit of the base unit.



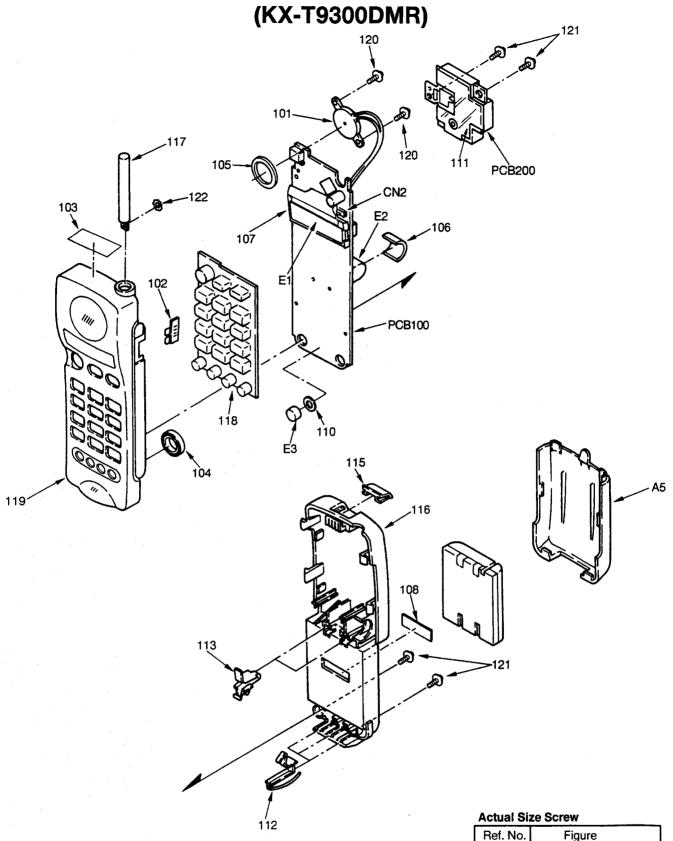
(11) Check the RF unit of the portable handset.



CABINET AND ELECTRICAL PARTS LOCATION (KX-T9300DMH)

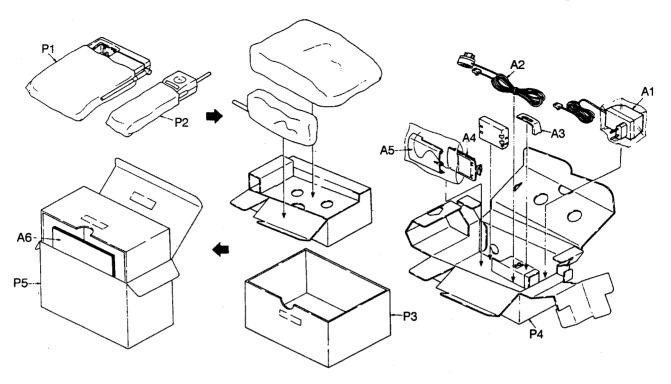


CABINET AND ELECTRICAL PARTS LOCATION (KX-T9300DMR)

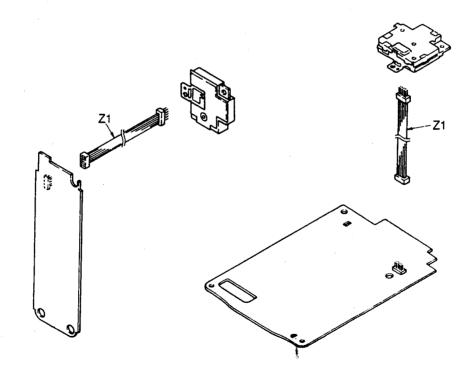


Ref. No.	Figure
120	Omm
121	финини

ACCESSORIES AND PACKING MATERIALS



FIXTURES AND TOOLS



Pcs/Set

Part Name & Description

This replacement parts list is Denmark version only. Refer to the simplified manual (cover) for other areas.

Ref. No.

Part No.

RE	PLACE	JENT	PAF	RTS LI	ST		
		_	Model	KX-T9	300DN	AH_	
After the disco to be available is dependent of governing part	RTL) indicates ontinuation of the for a specific on the type of a and product reof this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period, the specific this period that the specific this peri	nis assen period of assembly, tention.	nbly in prod time. The and in acc	duction, the retention pe cordance wit	item will c riod of ava th the laws	ontinue silability	
Components in safety. When specified parts	dentified by a replacing any s.	of these o	component	s, use only	manufactu	rer's	
3. The S mark in	dicates service	standard	parts and	may differ for	rom produ	ction	
parts. 4. RESISTORS 8	CAPACITORS	8					
Unless otherw							
All resistors ar	e in ohms (Ω)	K=10000	2, M=1000l	Ω			
All capacitors	are in MICRO F	ARADS (μF)P=μ	ıF			
	ge of Resistor						
Туре	IEDV Maria	F:1	PQ4R:Car			1	
ERC:Solid ERD:Carbon	ERX:Metal ERG:Metal			oon de Resistor			
PQRD:Carbon	ERO:Metal			ent Resistor		1	
Wattage	Eno.ivietai	T IMIT	LNI .Oem	CHE HESISTON		j	
10,16:1/8W	14,25:1/4W	/ 112	1/2W	11:1W	T 2:2W	3:3W	
*Type & Voltac	e of Capacitor	1.2					
Type	go or oupdance		* *				
ECFD:Semi-Co	nductor	ECCD,	ECKD,ECE	T,PQCBC:	Ceramic		
ECQS:Styrol		ECQE,	ECQV,ECC	QG: Polyest	er		
PQCUV:Chip		ECEA,	ECSZ : Ele	ectrolytic			
ECQMS:Mica		ECQP	ECQP : Polypropylene				
Voltage							
ECQ Type	ECQG ECQV Type	ECSZ			Others		
1H: 50V	05: 50V	0F:3.1		:6.3V		35V	
I los sour	1:100V	1A:10		:10V	50,1H:		
2A:100V							
2E:250V 2E:500V	2:200V	1V:35 0J:6.3		:16V 5:25V	1J :6	37	

Ref. No.	Part No.	Part Name & Description	Pcs/Set
	CA	BINET & ELECTRICAL PARTS	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	PQAS5P25Z PQBC10165Z1 PQGT12183Z PQHR10298Y PQHR10320Z PQHX10560Z PQJT10087Z PQJT10088Z PQKM10200R1 PQQT11202Z PQSA10031Z PQYF10079P1 XTN3+8G XTW3+S10P XTW3+S14P XYC3+CG10FX PJHE5065Z	SPEAKER BUTTON, PAGE NAME PLATE LED PLATE SPEAKER HOLDER INSULATOR (RF) BATTERY TERMINAL BATTERY TERMINAL UPPER CABINET NOTE LABEL ANTENNA LOWER CABINET SCREW (RF) SCREW (SPEAKER HOLDER) SCREW SCREW SCREW (SP)	1 1 1 1 2 3

				└
1			MAIN P.C.BOARD PARTS	
١	PCB1	PQWPT9300DMH	P.C.BOARD ASS'Y (RTL)	1
١				
			(ICS)	
١	IC1	AN6159FA	IC	1 1
١	IC2	PQVIPC78M06A	ic s	
1	IC4	MN150808KJAK	ic	1 1
١	IC5	PQVI93LC46XI	ic s	1
١	IC7	AN6183SAE1	IC	1 1
١	IC8	PQVIMC34119M	IC .	1 1
	IC9	PQVITC7W04FL	IC	1 1
-				
1			(TRANSISTORS)	
١	Q1	2SC4116	TRANSISTOR(SI)	1
١	Q3	2SA1625	TRANSISTOR(SI)	1 1
١	Q4	PQVT2N6517CA	TRANSISTOR(SI)	1
ı	Q6	2SD1992A	TRANSISTOR(SI)	1
ŀ	Q7	2SD601A	TRANSISTOR(SI)	1 1
١	Q8 Q8	2SD601A 2SD601A	TRANSISTOR(SI) TRANSISTOR(SI)	1
۱	Q9 Q10	2SC4116	TRANSISTOR(SI)	
-	Q13	2SD601A	TRANSISTOR(SI)	1
H	Q19	2SC4116	TRANSISTOR(SI)	1
١.	Q20	2SC4116	TRANSISTOR(SI)	1 1
, 1	Q25	2SD1328	TRANSISTOR(SI)	1 1
	Q30	POVTDTC143E	TRANSISTOR(SI) TRANSISTOR(SI)	
	Q31 Q301	2SD1664Q 2SC4116	TRANSISTOR(SI)	1 ; 1
П	Q306	2SC4116	TRANSISTOR(SI)	1 1
۱ ۱	IC3	XN1116	TRANSISTOR(SI)	1 1
l				
П	1		(DIODES)	
Н		DOVDC17D40E1	(DIODES)	1
	D1 D2	PQVDS1ZB40F1 MA110	DIODE(SI) DIODE(SI)	1 1
П	D3	PQVDS1ZB40F1	DIODE(SI)	i
'	D5	MA110	DIODE(SI)	1 1
	D8	MA4030	DIODE(SI)	1 1
et	D10	188131	DIODE(SI)	1
	D11	MA700A	DIODE(SI)	1 1
	D12 D13	MA110 MA112	DIODE(SI) DIODE(SI)	1
-	D13	MA112	DIODE(SI)	1
-	D16	1\$\$131	DIODE(SI)	1
	D17	MA110	DIODE(SI)	1 1
	D20	MA110	DIODE(SI)	1 1
ł	D23	MA110	DIODE(SI)	
	D30 D31	MA8030 MA110	DIODE(SI)	
	D34	MA112	DIODE(SI)	1
	D70	MA8068M	DIODE(SI)	1
	D90	1SS131	DIODE(SI)	1 !
	LED1	LNJ41LNKXAK	LED	1 1
	LED2	LN31GCPHV	LED	'
				1
			(COILS)	1
	L1	ELEV102KA	COIL	1
	L2	ELEV102KA	COIL	1 1
	L10	PQLQZM8R2K	COIL	1
	L11	PQLQZM8R2K	COIL	1 1
	L100 L101	PQLQZM8R2K PQLQZM8R2K	COIL	
	L101	PQLQZM8R2K	COIL	i
	R201	PQLQR1KT	COIL	1
	11			
			1.	
	J [

SWV POSSSA1TW SWTTCH, RINGER VOLUME 1 1 1 1 1 1 1 1 1	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
SWF PGSSA17W SWITCH, RINGER VOLUME 1 R26 RAGE(Y472 A.7K ERUSICEY.123 39K R29 REJUSEY.123 39K R29 REJUSEY.123 39K R29 REJUSEY.123 39K R29 REJUSEY.123 39K R29 REJUSEY.123 39K R29 REJUSEY.123 39K R29 R29 REJUSEY.123 39K R29 R29 REJUSEY.123 39K R29 R29 REJUSEY.123 39K R29 R29 R29 REJUSEY.123 39K R29 R			(SWITCHES)		R25	Not Used		+
VR1	sw∨	PQSS3A17W	SWITCH, RINGER VOLUME	1 1				1
VPI EVNDXAAQSB24 VARIABLE RESISTORS VARIABLE RESISTOR VA	SW5	EVQQJJ05Q	SWITCH, PAGE	1			22K	1 1
VP1 EVNDXAAQSB24 (VARIABLE RESISTORS) 1 R30 ERJSGEVJ352 5.6 K POPUR EVNDXAAQSB24 VARIABLE RESISTOR 1 R30 ERJSGEVJ352 2.2 K R31 R32 ERJSGEVJ352 2.2 K R32 R32 R33 R34 R34 ERJSGEVJ372 4.7 K R35			·	1				1 1
VARI EVNIDXAA038124								;
VARI EVNIDXAA038124			(VARIABLE RESISTORS)		R30	ERJ3GEYJ562	5.6K	1
VARI	VR1	EVNDXAA03B24	VARIABLE RESISTOR	1			1	
VR3	VR2	EVNDXAA03B15	VARIABLE RESISTOR	1 1	R32	1		i ' I
VARIABLE RESISTOR	VR3	EVNDXAA03B24	VARIABLE RESISTOR	1 1			14.7K	1 1
SA1	VR4	EVNDXAA03B54	VARIARI E RESISTOR	1 1	1			1
SA1				'			1	1 1
SA1	! !						2201	1
SA1	i		(VARISTORS)				330K	1 . 1
SA4	ISA1	POVDDSS301L	VARIOTOR	1				
POVIDISA302MU			VADIOTOD AND				191	1 1 1
PC1			213		1100	Not Used		
PC1			•			ERJ3GEYJ472	4.7K	1 1
PC3	!!	4					47K	1 1 1
PC3	l					t -	10K	1 1
PC4 PQVIP27021L3							l	
Description							560K	1
JJ1	PC4	PQVIP27021L3	PHOTO ELECTRIC TRANSDUCER	<u></u>			4.7K	1 1
JJ1					R49	ERJ3GEYJ105	1M	.1
JJ					R50	ERJ3GEYJ472	4.7K	
READER R			the second secon	1	R51	ERJ3GEYJ105	1M	1 1
R54	JJ2	PQJJ1TC2Y	JACK, TEL	1	R52	ERJ3GEYJ273	27K	1 1
No. POVC.12094NAR POVC.12094NAR POVC.12094NAR POVC.12094NAR POVC.12094NAR POVC.12094NAR POVC.13081NSZ POVC.1					R53	ERJ3GEYJ104	100K	1 1
No. Pov. P			ļ	1	R54	ERJ3GEYJ124	120K	1
R5				1	R55	ERJ3GEYJ184	180K	1 1
X3		1		1	R56	ERJ3GEYJ224	220K	1
R59				1	R57	ERJ3GEYJ104	100K	1
CN1	Х3	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1	· ·		1.8M	1
CN1			(OTHERS)		Den .	EB 19GEV 1470	4 71/	
RLY1 POSL134Z RELAY 1 R62 ERJ3GEYJ222 2.2K R63 ERJ3GEYJ233 33K R64 R65 ERJ3GEYJ243 24K R65 ERJ3GEYJ243 24K R66 ERJ3GEYJ393 39K R66 ERJ3GEYJ393 39K R66 ERJ3GEYJ393 39K R66 ERJ3GEYJ393 39K R68 ERJ3GEYJ473 47K R69 ERJ3GEYJ473 47K R69 ERJ3GEYJ392 3.9K R68 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 2.7K R69 ERJ3GEYJ392 2.7K R69 ERJ3GEYJ393 3.7K R71 ERJ3GEYJ392 2.7K R71 ERJ3GEYJ393 3.7K R72 R73 ERJ3GEYJ373 47K R74 R74 R74 R74 R75 ERJ3GEYJ393 3.7K R76 ERJ3GEYJ393 3.7K R76 ERJ3GEYJ393 3.7K R76 ERJ3GEYJ393 3.7K R79 ERDSZTJ564 560K R77 ERJ3GEYJ683 67K R79 ERDSZTJ564 560K R79 ERDSZTJ564 560K R79 ERDSZTJ564 560K R79 ERDSZTJ564 560K R79 ERDSZTJ564 560K R79 ERDSZTJ564 560K R79 ERDSZTJ571 470 1 R80 ERJ3GEYJ153 15K R79 ERDSZTJ471 470 1 R81 ERJ3GEYJ153 15K R76 ERDSZTJ471 470 1 R82 ERJ3GEYJ153 15K R78 R81 ERJ3GEYJ473 47K R70 1 R82 ERJ3GEYJ153 15K R86 ERDSZTJ471 470 1 R84 Not Used R85 PO4R10XJ471 470 1 R86 ERDSZTJ471 470 1 R86 ERJ3GEYJ473 47K R87-89 Not Used R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 470 1 ERJ3GEYJ473 47K R87-89 Not Used R85 PO4R10XJ471 47K R87-89 Not Used R85 PO4R10XJ471 47K R87-89 Not Used R85 PO4R10XJ471 47K R87-89 Not Used R85 PO4R10XJ471 47K R87-89 Not Used R85 PO4R10XJ471 47C 1 ERJ3GEYJ153 15K R87-89 Not Used R85 PO4R10XJ471 47C 1 ERJ3GEYJ153 15K R87-89 Not Used R85 PO4R10XJ471 47C 1 ERJ3GEYJ153 15K R87-89 Not Used R85 PO4R10XJ471 47C 1 ERJ3GEYJ153 15K R87-89 Not Used R85 PO4R10XJ471 47C 1 ERJ3GEYJ153 1	CN1	PO IP108017					4./K	1
R63 ERJ3GEYJ333 33K R64 ERJ3GEYJ393 29K R64 ERJ3GEYJ393 39K R66 ERJ3GEYJ473 47K R67 ERJ3GEYJ473 47K R67 ERJ3GEYJ473 47K R68 ERJ3GEYJ473 47K R68 ERJ3GEYJ473 47K R68 ERJ3GEYJ473 47K R68 ERJ3GEYJ473 47K R68 ERJ3GEYJ473 47K R69 ERJ3GEYJ103 10K ERJ3GEYJ104 100K 1 R71 ERJ3GEYJ273 27K R72 ERJ3GEYJ104 100K 1 R73 ERJ3GEYJ272 2.7K R74 ERJ3GEYJ105 15K 1 R75 ERJ3GEYJ272 2.7K R76 ERJ3GEYJ105 15K 1 R76 ERJ3GEYJ273 27K R779 Not Used R77 ERJ3GEYJ104 100K 1 R76 ERJ3GEYJ103 12K R77 ERJ3GEYJ104 100K 1 R78 ERJ3GEYJ103 12K R78 PQ4R10XJ473 12K R78 PQ4R10XJ222 2.2K R11 Not Used R11 Not Used R12 ERJ3GEYJ104 100K 1 R88 PQ4R10XJ222 2.2K R11 Not Used R12 ERJ3GEYJ473 47K 1 R80 ERJ3GEYJ123 12K R78 PQ4R10XJ222 2.2K R11 R14 ERJ3GEYJ473 47K 1 R80 ERJ3GEYJ123 12K R14 ERJ3GEYJ473 47K 1 R80 ERJ3GEYJ123 12K R15 PQ4R10XJ104 100K 1 R81 ERJ3GEYJ473 17K 1 R81 ERJ3GEYJ123 12K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K Not Used R16 ERDS2TJ471 470 1 R81 ERJ3GEYJ153 15K Not Used R18 Not Used R18 Not Used R84 Not Used R85 PQ4R10XJ471 470 1 R86 ERJ3GEYJ473 47K Not Used R85 PQ4R10XJ471 470 1 R86 ERJ3GEYJ473 47K Not Used R85 PQ4R10XJ471 470 1 ERJ3GEYJ473 47K Not Used R85 PQ4R10XJ471	- 1			1			0.014	
R64	``-``	, 4021042	I LEAT	'				1
R65 ERJ3GEYJ393 39K R66 ERJ3GEYJ373 47K R69 ERJ3GEYJ373 47K R69 ERJ3GEYJ373 47K R69 ERJ3GEYJ373 47K R69 ERJ3GEYJ392 3.9K R68 ERJ3GEYJ392 3.9K R68 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ392 3.9K R69 ERJ3GEYJ273 27K R69 ERJ3GEYJ273 27K R71 ERJ3GEYJ273 27K R72 ERJ3GEYJ273 27K R72 ERJ3GEYJ273 27K R74 R75 ERJ3GEYJ273 27K R75 ERJ3GEYJ153 15K 1 R74 Not Used R68 PQ4R10XJ473 47K 1 R74 Not Used R76 ERJ3GEYJ153 15K 1 R75 ERJ3GEYJ333 33K R76 ERJ3GEYJ333 33K R779 ERJ3GEYJ333 12K R77 ERJ3GEYJ683 68K R77 ERJ3GEYJ683 68K R77 ERJ3GEYJ683 68K R77 ERJ3GEYJ683 68K R78 PQ4R10XJ222 2.2K R79 ERDS2TJ664 560K R78 PQ4R10XJ222 2.2K R79 ERDS2TJ664 560K R78 PQ4R10XJ047 47K 1 R80 ERJ3GEYJ183 12K R78 PQ4R10XJ047 47K 1 R81 ERJ3GEYJ183 12K R77 ERJ3GEYJ183 12K R79 ERDS2TJ671 470 1 R82 ERJ3GEYJ183 12K R79 ERDS2TJ671 470 1 R82 ERJ3GEYJ183 15K R79 ERDS2TJ671 470 1 R82 ERJ3GEYJ183 15K R79 ERDS2TJ671 470 1 R82 ERJ3GEYJ183 15K R79 ERDS2TJ671 470 1 R82 ERJ3GEYJ183 15K R79 ERDS2TJ671 470 1 R85 PQ4R10XJ471 470 1 R86 ERJ3GEYJ473 47K R79 ERDS2TJ671 470 1 R86 ERJ3GEYJ473 47K R79 ERDS2TJ671 470 1 R86 ERJ3GEYJ473 47K R79 ERJ3GEYJ473 47K R79 ERDS2TJ671 470 1 R86 ERJ3GEYJ473 47K R79	į.			- 1				1
R66	i			Í				!
R67								1
R68			·					1
R69 ERJ3GEYJ392 3.9K	Į.							1
R1						1		1 1
R2 ERDS2TJ824 820K 1 R71 ERJ3GEYJ273 27K R3 Not Used 1 R72 ERJ3GEYJ273 27K R4 ERJ3GEYJ153 15K 1 R73 ERJ3GEYJ272 2.7K R5 ERJ3GEYJ153 15K 1 R74 Not Used 2.7K R6 PQ4R10XJ473 47K 1 R75 ERJ3GEYJ333 33K R70 Not Used R76 ERJ3GEYJ123 12K R11 Not Used R78 PQ4R10XJ222 2.2K R11 Not Used R79 ERDS2TJ564 560K R12 ERJ3GEYJ172 4.7K 1 R80 ERJ3GEYJ123 12K R14 ERJ3GEYJ473 47K 1 R81 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used R17 ERDS2TJ821 820 1 R84 Not Used R18 Not Used R85 PQ	_{R1} [. 1	B70]		
R3								1
R4 ERJ3GEYJ104 100K 1 R73 ERJ3GEYJ272 2.7K R5 ERJ3GEYJ153 15K 1 R74 Not Used R6 PQ4R10XJ473 47K 1 R75 ERJ3GEYJ333 33K R7~9 Not Used R10 Not Used R75 ERJ3GEYJ123 12K R10 Not Used R77 ERJ3GEYJ683 68K R11 Not Used R78 PQ4R10XJ222 2.2K R11 Not Used R79 ERDS2TJ564 560K R12 ERJ3GEYJ104 100K 1 R80 ERJ3GEYJ123 12K R13 ERJ3GEYJ472 4.7K 1 R80 ERJ3GEYJ123 12K R14 ERJ3GEYJ473 47K 1 R81 ERJ3GEYJ183 18K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ183 18K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used R17 ERDS2TJ821 820 1 R84 Not Used R18 Not Used R85 PQ4R10XJ471 470 1 R19 Not Used R86 ERJ3GEYJ473 47K R19 Not Used R86 ERJ3GEYJ473 47K R20 Not Used R87~89 Not Used R21 ERJ3GEYJ153 15K		1	UEU!	'				1
R5			100K	, 1				1
R6							4.1N	1
R7-9							224	_,
R10 Not Used R77 ERJ3GEYJ683 68K R78 PQ4R10XJ222 2.2K R79 ERDS2TJ564 560K R12 ERJ3GEYJ472 4.7K 1 R80 ERJ3GEYJ123 12K R14 ERJ3GEYJ473 47K 1 R81 ERJ3GEYJ183 18K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used R18 Not Used R18 Not Used R18 Not Used R85 PQ4R10XJ471 470 I R86 ERJ3GEYJ473 47K R19 Not Used R86 ERJ3GEYJ473 47K R19 Not Used R86 ERJ3GEYJ473 47K R87~89 Not Used				'				1
R10	· ~		į.	j				1
R11 Not Used R12 ERJ3GEYJ104 100K R13 ERJ3GEYJ472 4.7K R14 ERJ3GEYJ473 47K R15 PQ4R10XJ104 100K R16 ERDS2TJ471 470 R17 ERBS2TJ821 820 R18 Not Used R19 Not Used R19 Not Used R20 Not Used R21 ERJ3GEYJ153 15K 1 R80 ERDS2TJ271 470 1 R84 Not Used R20 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270	R10	Not Used	ı	- 1		1		1
R12 ERJ3GEYJ104 100K 1 R13 ERJ3GEYJ472 4.7K 1 R80 ERJ3GEYJ123 12K R14 ERJ3GEYJ473 47K 1 R81 ERJ3GEYJ183 18K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used R17 ERDS2TJ821 820 1 R84 Not Used R18 Not Used R85 PQ4R10XJ471 470 1 R19 Not Used R86 ERJ3GEYJ473 47K R20 Not Used R87~89 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270			I	1				1
R13			100K	, I	1113	LNU321J304	DOUN	1
R14 ERJ3GEYJ473 47K 1 R81 ERJ3GEYJ183 18K R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used R17 ERDS2TJ821 820 1 R84 Not Used R18 Not Used R85 PQ4R10XJ471 470 47K R19 Not Used R86 ERJ3GEYJ473 47K R20 Not Used R87~89 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270					BSC	ED 190EV 1402	101/	. 1
R15 PQ4R10XJ104 100K 1 R82 ERJ3GEYJ153 15K R16 ERDS2TJ471 470 1 R83 Not Used 15K R17 ERDS2TJ821 820 1 R84 Not Used 470 470 R18 Not Used R85 PQ4R10XJ471 470 47K R20 Not Used R87~89 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270		1						1
R16	1 1						3	!
R17							191/	.1
R18 Not Used R85 PQ4R10XJ471 470 (R86 ERJ3GEYJ473 47K R87~89 Not Used R20 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270						· ·		
R19 Not Used R86 ERJ3GEYJ473 47K R20 Not Used R87~89 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270			[' 1			470 (. 1
R20 Not Used R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270				- 1	R86		, ,	1
R21 ERJ3GEYJ153 15K 1 R90 ERD25TJ271 270				- 1				1
700			_{15K}	,	R90	FRD25T 1271	270	1
R22			-		R91		-10	'
R23 ERJ3GEYJ103 10K 1 R92 ERD25TJ181 180			ľ				180	1
R24 ERJ14YJ470 47 1 R93 PQ4R10XJ222 2.2K								il

Ref. No.	Part No.		Value	Pcs/Set	Ref. No.	. Part No.		Value	Pcs/Se
R94	ERJ3GEYJ103	10K		1	R186	ERJ3GEYJ103	10K		+
R95 R96	ERJ3GEYJ102	1K		1 1	R187	ERJ3GEY0R00	0		
R97	ERJ3GEYJ102 ERJ3GEYJ683	1K		1	R188	PQ4R18XJ000	o		1 1
R98	ERJ3GEYJ103	68K 10K		1	R189	ERJ3GEYJ104	100K		1
R99	ERJ3GEYJ104	100K		1 1	D400				
		1.55		1 1	R190 R191~194	ERJ3GEYJ100	10		1
R100	ERJ3GEYJ822	8.2K		1 1	R195	Not Used ERJ3GEYJ103	10K		
R101	ERJ3GEYJ473	47K		1 1	R196	ERJ3GEYJ104	100K		1 1
R102	ERJ3GEYJ562	5.6K		1 1	R197	ERJ3GEYJ563	56K		1 1
R103	ERJ3GEYJ223	22K		1 1	R198	Not Used	1		1 '
R104 R105	ERJ3GEYJ562	5.6K		1	R199	ERJ3GEYJ102	1K		1
R106	ERJ3GEYJ822 Not Used	8.2K		1	1		l .		i '
R107	ERJ3GEYJ332	3.3к		1 1	R200	ERJ3GEYJ104	100K		1 1
R108	ERJ3GEYJ105	1M			R202	ERJ3GEYJ100	10		1
R109	ERJ3GEYJ271	270		!	R203~209	Not Used	1]
				1	R210	ED INCEVIOUS			1
R110	ERJ3GEYJ681	680		1 1 1	R211	ERJ3GEYJ332 ERJ3GEYJ224	3.3K		1
R111	ERJ3GEYJ104	100K		i	R212~214	Not Used	220K		1
R112	Not Used	t l			R215	ERJ3GEYJ681	680		
R113 R114	ERJ3GEYJ223	22K		1	R216~219		1000		1 1
R115	ERJ3GEYJ223 ERJ3GEYJ223	22K		1 1	1				1
R116	ERJ3GEYJ223	22K 22K		1	R220	ERJ3GEYJ222	2.2K		1 1
3117	ERJ3GEYJ104	100K		!	R221~229	Not Used	ĺ		i l
R118	Not Used	TOOK		1 1	Door	BO 4D 40 V 150 4			
R119	Not Used				R230 R231	PQ4R18XJ561 PQ4R10XJ221	560		1 1
	ļ			1	R232	PQ4R10XJ221	220 120		1 ! !
R120	Not Used				R233	PQ4R10XJ120	120		
3121	ERJ3GEY0R00	0		1	R234~239	Not Used	'-		1 1
1122~139	Not Used		1		ŀ	l			1
140~148	Not Used				R240	Not Used]		1 1
1149	ERJ3GEYJ104	100K			R241	Not Used] [
	110000210104	TOOK		1	R242	ERJ3GEYJ332	3.3K		1 1
1150	ERJ3GEYJ473	47K	,	1	R243 R244	ERJ3GEYJ332	3.3K		1 1
151	Not Used		· ·	' 1	R245	ERJ3GEYJ102 ERJ3GEYJ102	1K		1 1
152	PQ4R10XJ000	lo		1	R246	ERJ3GEYJ272	1K 2.7K		
153	Not Used			1	R247	ERJ3GEYJ182	1.8K		
154 155	Not Used ERJ3GEYJ473	4-74		- 1	R248	ERJ3GEYJ223	22K		1 1
156	ERJ3GEYJ473 ERJ3GEYJ683	47K 68K		1	R249	ERJ3GEYJ102	1K		
	ERJ3GEYJ472	4.7K		1	5050]]
158	ERJ3GEYJ103	10K	Į	1	R250 R251	ERJ3GEYJ224	220K		1 1
159	Not Used			' !	R252	ERJ3GEYJ222 ERJ3GEYJ271	2.2K		1
			ľ		R253~269	Not Used	270	İ	1
	ERJ3GEYJ101	100		1		1101 0000			
	ERJ3GEYJ103	10K	ı	1	R270	Not Used	1		1
	Not Used ERJ3GEY0R00		İ		R271	ERJ3GEYJ683	68K		1
1	ERJ3GEY0R00	0				ERJ3GEYJ104	100K		1
	ERJ3GEYJ681	0 680		1	_	ERJ3GEY0R00	lo l		1
	Not Used	1000	1			ERJ3GEYJ104 Not Used	100K		1
					112/3 3/3	1401 0580]		
170	ERJ3GEYJ330	33		1	R320	Not Used			
	Not Used		1	11	R321	ERJ3GEYJ103	10K	1	1
	Not Used ERJ3GEYJ224	0004				ERJ3GEYJ474	470K		1
1	ERJ3GEYJ224	220K 220K			R323~399	Not Used	1		
- 1	ERJ3GEYJ392	3.9K		1	l				
[ERJ3GEYJ391	390		1 1	R400	ERJ3GEY0R00	0		1
77	Not Used	1	İ		J73	ER ISCEVADAA	<u> </u>	I	
	ERJ3GEYJ153	15K			. 1	ERJ3GEY0R00 ERJ3GEY0R00	0	l	1
79	Not Used	1	ŀ			ERJ3GEY0R00	0		1
<u> </u>						ERJ3GEY0R00	0	l	1
<u>.</u> .	ERJ3GEYJ102	1K	İ	1		ERJ3GEY0R00	ő	ĺ	;
	ERJ3GEYJ102 ERJ3GEYJ102	1K	Į			ERJ3GEY0R00	o	İ	1
1	ERJ3GEYJ102 ERJ3GEYJ102	1K 1K	. [ERJ3GEY0R00	0	ŀ	1
	ERJ3GEYJ102 ERJ3GEYJ104	100K	į			RJ3GEY0R00	0	1	1
		1001		1 1 1	J103 📙	ERJ3GEY0R00	lo		1

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
J150	ERJ3GEY0R00	o	1	C25	ECUV1E104ZFV	0.1 S	
J151	ERJ3GEY0R00	0	1 1	C26	ECUV1E104ZFV	0.1 S	
	DO 4 D 4 D 4 D 4 D 5 D	l.		C27	PQCUV1C105ZF	1 S	
J75	PQ4R10XJ000	0	!	C28	ECUV1H102KBV	1000P	1 1
J77	PQ4R10XJ000	0	1 1	C29	ECUV1H101JCV	100P	1
J82	PQ4R10XJ000	0	!	000	EOUT ALLOCON DV		
J85 J88	PQ4R10XJ000	0	1 1	C30	ECUV1H223KBV	0.022	
300	PQ4R10XJ000	lo .	1 1	C31 C32	ECUV1H223KBV	0.022 S	
J68	PQ4R18XJ000	lo	1	C33	PQCUV1H102J PQCUV1H180JC	1000P S	1
	Í	1	1 I	1		l lor	l '
J69	PQ4R18XJ000	0	1 1	C34	Not Used		1 .
J70	PQ4R18XJ000	0	1	C35	ECST0JX226	22	1
J71	PQ4R18XJ000	0	1 1	C36	PQCUV1E104MD	0.1	1 1
J74	PQ4R18XJ000	0	1 1	C37	PQCUV1E104MD	0.1	1 1
J78	PQ4R18XJ000	0	1	C38	ERJ3GEY0R00	0	1
J80	PQ4R18XJ000	0	1 1	C39	ECUV1H223KBV	0.022 S	1
J81 J83	PQ4R18XJ000	io Io	1 1	1040	ECUMUIO00KBV	l	١.
J86	PQ4R18XJ000 PQ4R18XJ000	0	1	C40 C41	ECUV1H223KBV	0.022 · S	
J89	PQ4R18XJ000	0		C41 C42	PQCUV1C105ZF ECST0JY106	1 S	
J91	PQ4R18XJ000	o .		C42	ECSTOJY475	10 4.7	1 1
J92	PQ4R18XJ000	0		C44		•	1
J94	PQ4R18XJ000	0		C45	ECUV1H332KBV ECUV1E104ZFV	3300P	1 1
J95	PQ4R18XJ000	0	;	C46	ECEA1CU221	0.1 S 220	
J96	PQ4R18XJ000	0	;	C47	PQCUV1E104MD	0.1	
J97	PQ4R18XJ000	0	lil	C48	PQCUV1E104MD	0.1	
J102	PQ4R18XJ000	o o		C49	ECUV1H103KBV	0.01	li
J102	PQ4R18XJ000	0	i	C49	ECOVINIONEV	0.01	l '
J104 J108	PQ4R18XJ000	o		C50	ECUV1H103KBV	0.01	1
J202	PQ4R18XJ000	o o	;	C51	ECUV1H223KBV	0.022 S	1
J211	PQ4R18XJ000	0		C52	ECST0JY475	4.7	i
J300	PQ4R18XJ000	o		C53	ECSTOJY106	10	1 .
J303	PQ4R18XJ000	0	;	C54	ECST0JY475	4.7	
0000	P Q = 1110 X 0 0 0 0	l ^o	'	C55	ECUV1H153KBV	0.015	1
D33	PQ4R18XJ000	o	1 1	C56	Not Used	0.015	i '
D45	PQ4R10XJ000	o	1	C57	Not Used	•	
545		l ^o	·	C58	ECST0JX226	22	1
				C59	EECW5R5D473	0.047 S	
				C60	PQCUV1H103KB	0.01	١.
		1		C61	ECUV1H180JCV	0.01 18P	1 !
				C62	ECUV1H180JCV	18P	1 1
				C63-69	Not Used	TOP	
				C70~76	Not Used		
		ĺ		C77	PQCUV1C105ZF		1
		[C78	ECUV1E104ZFV	0.1 s	
		(CAPACITORS)		C79	PQCUV1H681JC	680P	1 1
C1	ECQE2224KF	0.22	1				'
C2	ECQE2224KF	0.22	1	C80	Not Used		
СЗ	ECUV1H122KBV	1200P	1	C81	Not Used		
C4~7	Not Used			C82	ECUV1E104ZFV	0.1 S	1
C8	PQCUV1C224ZF	0.22 S	1 1	C83	ECUV1H333KDV	0.033 S	1
C9	ECUV1H151JCV	150P	1	C84	Not Used		,
	•		1	C85	ECUV1H223KBV	0.022 S	1
C10	ECEA1CKS100	10	1 1	C86	ERJ3GEY0R00	0	1
C11 .	ECUV1E104ZFV	0.1 S	1 1	C87	Not Used		
C12 .	Not Used		1	C88	ECUV1H223KBV	0.022 S	1
C13	Not Used	1	1	C89	ECEA1HKS100	10	1
C14	PQCUV1H333JC	0.033 S	1				
C15	ECUV1H101JCV	100P	1	C90	ECEA1AKS221	220	1
C16	ECUV1H472KBV	4700P	1	C91	ECUV1E104ZFV	0.1 S	1
C17	ECUV1E104ZFV	0.1 S	1	C92	Not Used		
C18	PQCUV1E104MD	0.1	1	C93	ECEA0JKS220	22	1
C19	ECST0JY106	10	1	C94	PQCUV1C105ZF	1 S	1
		[1	C95	PQCUV1H222KB	2200P	1
C20	PQCUV1E104MD	0.1	1	C96	PQCUV1E473MD	0.047	1
C21	PQCUV1E334ZF	0.33	1	C97	ECST0JX226	22	1
C22	ECUV1E104ZFV	0.1 S	1	C98	ECST0JX226	22	1
C23	ECST0JY106	10	1	C99.	ECUV1E105ZF	1 S	1
C24	ECUV1E104ZFV	0.1 S	1	1	ľ	·	

Ref. No.	Part No.	Value		Pcs/Set	Ref. No.	Part No.	Part Name & Description		Pcs/Set
	PQCUV1H103KB Not Used	0.01		1			RF UNIT PARTS		
	Not Used			l i	PCB2	PQLP10153S	P.C.BOARD ASS'Y (RTL)		1
	ECUV1H223KBV	0.022	s	1 1	1 322	1 42. 101000	7.0.507.11.0 7.00 1 (111.5)		•
	ECUV1H332KBV	0.0033	J	lil	1			- 1	
	EÇEA0JK221	220	S			1	(ICS)	- 1	
	Not Used				IC201 IC202	PQVIM64084GP	IC		1.
C130	ECUV1H102KBV	1000P		I , I	10202	PQVIPC2746TE	IC		1
	Not Used	1000P		1			(TDANIQUETODO)		
C140	ECUV1H222KBV	2200P		1	Q201	2SC4099NT106	(TRANSISTORS)		4
1 t	Not Used	22001		'	Q202	2SC4099NT106	TRANSISTOR(SI) TRANSISTOR(SI)	- 1	1 1
0141-143	Not Used			l l	Q203	2SC4571R77	TRANSISTOR(SI)	s	1
C150	ECUV1E104ZFV	0.1		1 1	Q204	2SC3356R24	TRANSISTOR(SI)	٩I	
	Not Used	10.1		'	Q205	2SC4571R77		s l	1
	ECUV1H101JCV	100P		1 1	Q206	2SC4571R77 2SC4226R24	TRANSISTOR(SI)	١,	1
	Not Used	100P			Q200	2504220H24	TRANSISTOR(SI)	ŀ	1
	Not Used						(COILS)		
	ECST1CY475	4.7		1	L201	PQLQR2N1R0KT	COIL	- 1	1
	ECST0JY475	4.7		1	L202	PQLQR2N1R0KT	COIL		1
C163	ECUV1H102KBV	1000P		1 1	L203	PQLQR2M4N7K	COIL		1
	ECUV1H473MDV	0.047		1 -	L204	PQLQR2M10NKT	COIL	- 1	1
C165~169	Not Used			} . I	L205	PQLQR2M10NKT	COIL		1
				1	L206	MQLRE12NJF	COIL	- 1	1
C170	Not Used			l 1	L207	MQLRE10NJF	COIL	- 1	1
C171	PQCUV1C105ZF	1		1	L209	PQLQR2M4N7K	COIL		1
C172	PQ4R10XJ000	0		1	L210	PQLQR2M4N7K	COIL	- 1	1
C173	ECUV1E104ZFV	0.1		1	L220	PQLQR2M8N2KT	COIL	- 1	1
C174	PQCUV1E104MD	0.1		1 .	L221	PQLQR2M8N2KT	COIL	- 1	1
C175~199	Not Used				C233	PQLQR2M10NKT	COIL	- 1	1
C200	PQCUV1E104MD	0.1		1	1			1	
C201~249	Not Used		•		VC0201	PQV016Z	(OSCILLATORS) OSCILLATOR	ı	•
C250	PQ4R10XJ000	О			VC0201	PQV016Z PQV015Z	OSCILLATOR	- 1	1
	Not Used	U		'	VC0202	FQV0132	OSCILLATOR	1	'
C300	EECW5R5D473	0.047		1 1			(SAW FILTERS)		
	Not Used	0.047		'	F201	PQVCM21M8PJ2	CERAMIC FILTER	- 1	1
C301~319	Not used			1	F202	PQVSM959E11L	CERAMIC FILTER	- 1	1
C320	Not Used]]	F202	PQVSM914E11L	CERAMIC FILTER	ı	1
	ECUV1H102KBV	1000P		1	F203	EZFN914AM01	CERAMIC FILTER		i
	Not Used	1000F		'	. 1-204	2211491471401	CENAIMIC FIETER	l	'
C330	ECUV1H682KBV	6800P		1	1	l	(OTHERS)		
C331~499		UOUUF		'	VC201	PQCVTZB10ZA	TRIMMER CAPACITOR	ı	1
C331-499	INULUSEU				X201	PQVC01280K4Z	CRYSTAL OSCILLATOR	- 1	1
C500	Not Used				CN201	PQJS10A82Z	CONNECTOR	- 1	1
	ECUV1H103KBV	0.01		1	CITEUI	- GOOTONOZZ	JOSHNEO TOTA	1	'
	Not Used	0.01		'			,		
Cenn	ECHV1E10475V	0.1		,	1	l			
	ECUV1E104ZFV Not Used	0.1		1					
C660~665	Not Used								
	ECKD3D681KBP	680P		1	1	· .	1	- 1	
	Not Used	1000		'	1	1	· ·	- 1	
	ECST1CC336	33		1 1	1	1		1	
		الا		'	-1		(RESISTORS)	ł	
C669~899	Not Used	1			R201	ERJ3GEYJ220	•	- 1	1
C900	ECUN4E10475V	0.1		, I	R201	ERJ3GEYJ220 ERJ3GEYJ680	22 68	1	1
	ECUV1E104ZFV	0.1		1 1	R202	1	0		
	ECUV1E104ZFV	0.1		1	1	ERJ3GEYJ000	4-	ŀ	1
C902	PQCUV1C105ZF	1'		1	R204	ERJ3GEYJ153	15K		1
					R205	ERJ3GEYJ153 ERJ3GEYJ563	15K 56K	1	1
		· ·							
					R206		 	J	1
	+ 				R207	ERJ3GEYJ470	47		1
				·			 		•

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R210	ERJ3GEYJ104	100K	1	C222	ECUV1H100DCV	10P	
R211	ERJ3GEYJ122	1.2K	1 1	C223	ECUV1H270JCV	27P	i
R212	ERJ3GEYJ561	560	1 1	C224	ECUV1H270JCV	27P	1
R213	ERJ3GEYJ470	47	1	C225	Not Used	1	ļ
R214	ERJ3GEYJ104	100K	1	C226	Not Used		
R215	ERJ3GEYJ681	680	1	C227	ECUV1H102KBV	1000P	1
R216	Not Used			C228	ECUV1H020CCV	2P	1
R217	Not Used		i i	C229	ECUV1H102KBV	1000P	1
R218	ERJ3GEYJ820	82	1	İ			
R219	ERJ3GEYJ123	12K	1	C230	ECUV1H040CCV	4P	1
1				C231	Not Used	j	
R220	ERJ3GEYJ470	47	1	C232	ECUV1H102KBV	0.001	1
R221	ERJ3GEYJ100	10	1	C234	ECUV1H020CCV	2P	i
R222	ERJ3GEYJ123	12K	1	C235	ECUV1H101JCV	100P	i
R223	ERJ3GEYJ473	47K	- 1	C236	ECUV1H101JCV	100P	i
R224	ERJ3GEYJ683	68K	1	C237	Not Used	1.00.	'
R225	ERJ3GEYJ470	47	1 1	C238	ECUV1H040CCV	4P .	1
R226	ERJ3GEYJ470	47	1	C239	Not Used	l''' '	' '
R227	ERJ3GEYJ390	39	1	0.00	10. 0000		
R228	ERJ3GEYJ681	680	i	C240	ECUV1H040CCV	4P	
R229	ERJ3GEYJ820	82	i	C241	ECUV1H102KBV	l **	1
		- C	' [C242	ECUV1H102KBV	0.001	1
R230	ERJ3GEYJ563	56K	. [Not Used	0.001	1
	ERJ3GEYJ153	15K	1	C243		L	
1	ERJ3GEYJ153	15K	1	C244	ECUV1H102KBV	0.001	1
	ECUV1H010CCV	1P	1	C245	ECUV1H101JCV	100P .	1
	ERJ3GEYJ100	10	1		ECUV1H020CCV	2P	1 1
R235~239	Not Used	10	1	1	ECUV1E104ZFV	0.1 S	1
11200 200	1401 0560		l l		Not Used		- 1
R240	ERJ3GEYJ272	2.7K		C249	ECST0JX226	22	1
	Not Used	2./1	1				1
n241~259	Not Used		- 1	1 1	Not Used		1
lnoco I	NIAA I I				ECUV1H102KBV	0.001	1
	Not Used			1		0.22	1
i. 1		0	1			0.0056	1
R262~269	Not Used				ECUV1H562KBV	0.0056	1
D070			1	C255~259	Not Used		
R270	ERJ3GEYJ000	0	1			1	i
1			ŀ		Not Used		- 1
					Not Used		ŀ
	· i		1	C262	ECUV1H101JCV	100P	1 -
						İ	i
				L208	ECUV1H101JCV	100P	1
		(CAPACITORS)	ļ	1 1		ł	ļ
	Not Used			1 1		i	ì
_		22	1			l	
		1	1		,		. [
T		100P	1			į	. [
		820P	1	1 1			
	Not Used		- 1		j		1
		0.0033	1				i
	ECUV1H332KBV	0.0033	1			·	
C209	ECUV1E104ZFV	0.1 S	1	1 1			
1				1 . 1	j		i
C210	ECUV1H103KBV	0.01	1	1 1			- 1
C211	ECST0JX226	22	1	i I			ĺ
		0.01	1	1	I	ļ	- 1
		100P	il	1	l	ì	j
	Not Used		·	1 i	1		j
		4P	1	1 1	ì		j
		0.01	1	1 1			
I		27P	1	1	į		}
		0.1. S	1		1	1	- 1
[Not Used	5	1				
	ECUV1H010CCV Not Used	1P	1				

Pcs/Set

Part Name & Description

MAIN P.C.BOARD PARTS
P.C.BOARD ASS'Y (RTL)

This replacement parts list is Denmark version only. Refer to the simplified manual (cover) for other areas.

Ref. No.

Part No.

KER	PLACEN	IENT	ΓΙ	PAR	TS LI	ST						
			М	odel	КХ-Т9	300DI	MR					
Note:												
1. RTL (Retention)			_									
The marking (R' After the disconto be available fis dependent on governing part a After the end of	tinuation of the for a specific particle the the type of as and product rete	is asser period of ssembly ention.	nbly time , and	in produ . The re in acco	ction, the tention per rdance wit	item will or riod of avail to the laws	continu ailabilit					
2. Important safety			_,									
Components ide safety. When re specified parts.	eplacing any o	f these	comp	onents,	use only r	nanufactu	rer's					
3. The S mark indic	cates service s	standard	part	s and m	ay differ tr	om produ	ction					
parts. 4. RESISTORS & 0	ADACITODS											
Unless otherwise												
All resistors are i		K=10000	2. Ma	1000KC)							
All capacitors are												
*Type &Wattage	of Resistor			••								
Туре						:	-					
ERC:Solid	ERX:Metal F			R:Carbo			1					
ERD:Carbon	ERG:Metal C				Resistor							
PQRD:Carbon	ER0:Metal F	·ilm	ERF	:Cemen	t Resistor		J					
Wattage 10,16:1/8W	14,25:1/4W	110	:1/20	7	1:1W	2:2W	3:3W					
*Type & Voltage		112	. 1/2V	<u>v</u>	11:144	2.244	3.34					
Type	от Сараског											
ECFD:Semi-Cond	luctor	ECCD.	ECKI	D.ECBT.	PQCBC :	Ceramic						
ECQS:Styrol					: Polyeste							
PQCUV:Chip		ECEA.ECSZ : Electrolytic										
	ECQP : Polypropylene											
ECQMS:Mica		ECCP	: POI	ypropyie	716	Voltage						
		ECQP	: Poi	ypropyie	nie .							
Voltage ECQ Type E	CQG CQV Type	ECSZ		ургорую		thers						
Voltage ECQ Type E			Туре				35V					
Voltage ECQ Type E 1H: 50V 2A:100V	CQV Type	0F:3.1:	Type 5V V	0J :6	.3V .0V	1V :3	50V					
Voltage ECQ Type E 1H: 50V 2A:100V	CQV Type 5: 50V	ECSZ 0F:3.1	Type 5V V	0J :6	.3V 0V 6V	1V :3 50,1H:6						

Ref. No.	Part No.	Part Name & Description		Pcs/Se
	(CABINET & ELECTRICAL PARTS		I
101	PQAX3P19Z	SPEAKER		1
102	PQBD10032Y1	KNOB, POWER	S	1
103	POGT12184Z	NAME PLATE		1 1
104	PQHG10286Z	SPACER (MIC)		1
105	PQHG10300Z	SPACER (SPEAKER)		1
106	POHG10326Z	SPACER (RINGER)		1
107	POHR10315Z	LCD HOLDER		1
108	PQHX10085Z	ID COVER		1
109	PQHX10494Z	SPACER (RF)		1
110	PQHX10503Z	SPACER (MIC)		1
111	PQHX10560Z	INSULATOR (RF)		1
112	PQJT10085Z	BATTERY TERMINAL	s	-
113	PQJT10086Z	BATTERY TERMINAL		2
114	PQJT10090Z	BATTERY TERMINAL	s	5
115	PQKE10038Z1	HANGER		1
116	PQKF10119Z1	CABINET PLATE		1
117	PQSA808X	ANTENNA		1
118	PQSX10016Z1	BUTTON, KEY		1
119	PQYM10046W1	CABINET BODY	-	1
120	XTN26+6J	TAPPING SCREW		2
121	XTW26+12F	TAPPING SCREW		4
122	XWC26BFN	WASHER		1 .
]
		l		l

IC1 IC2 IC3 IC4 IC5 IC6	AN6159FA PQVIXC3002MR PQVIA8184SLT PQVISC78184D PQVI93LC46XI PQVI4829C23H	(ICS) IC IC IC IC IC		1 1 1 1	
Q1 Q5 Q6 Q7 Q9 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q21	2SD1328 PQVTDTC143E 2SC4116 2SC4116 2SB1218A PQVTDTC143E PQVTDTC143E PQVTDTC143E PQVTDTB123E 2SD1819A PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTB123E PQVTDTA143EU 2SD1819A PQVTDTC144TU	(TRANSISTORS) TRANSISTOR(SI)	ø	1 1 1 1 1 1 1 1 1 1 1 1	
D1 D3 D5 D11 D12 D13 D14 D15 D16 D17	MA8150 MA110 PQVDRB751H4 MA729 MA729 MA729 MA729 MA110 MA8039 MA110	(DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI) DIODE(SI)		1 1 1 1 1 1 1 1	
 VR1 VR3 VR4	EVM1YSX50B24 EVM1YSX50B54 EVM1SSX50B53	(VARIABLE RESISTORS) VARIABLE RESISTOR VARIABLE RESISTOR VARIABLE RESISTOR		1 1 1	
X1 X3 X4	PQVCE2094N4R PQVBTCS4.00M PQVCE3276N9Z	(CRYSTALS) CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR		1 1 1	
CN1 CN2	PQJP10B01Z PQJS36A62Z	(CONNECTORS) CONNECTOR (RF) CONNECTOR (LCD)		1 1	
E1 E2 E3 F1 L1 R128	PQADB5567AX2 PQEFBQM111G3 PQJM122Z PQVFSFPC455E PQVFCDBC455M PQLQR1RM601 ESD11H120	(OTHERS) LIQUID CRYSTAL DISPLAY BUZZER MICROPHONE CERAMIC FILTER CERAMIC FILTER COIL SWITCH, POWER	S	1 1 1 1 1 1	

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
		(RESISTORS)		R67	ERJ3GEYJ474	470K	1
R1	ERJ3GEYJ684	680K	1	R68	Not Used		1
R2	ERJ3GEYJ100	10	1 1	R69	Not Used		1
R3 R4	ECUV1H472KBV	0.0047	1	ŀ			}
R5	ERJ3GEYJ332	3.3K	1 1	R70	Not Used		1
R6	ERJ3GEYJ393	39K	1	R71	PQ4R10XJ000	ļo	1
R7	Not Used ERJ3GEYJ473	4-714	1	R72	PQ4R10XJ000	0	1
R8	ERJ3GEYJ473	47K	1 1	R73	PQ4R10XJ221	220	1
R9	ERJ3GEYJ183	47K 18K	!	R74~78	Not Used		
	LHUSGETUTOS	lon.	1 1	R79	ERJ3GEYJ103	10K	1
R10	ERJ3GEYJ183	18K	1	R80	ERJ3GEYJ104	100K	1
R11	ERJ3GEYJ683	68K	1	R81	ERJ3GEYJ683	68K	
R12	ERJ3GEYJ823	82K	1	R82-86	Not Used	100.1	
R13	ERJ3GEYJ222	2.2K	1	R87	ERJ3GEYJ100	10	1
R14	ERJ3GEY0R00	lo l	1 1	R88	ERJ3GEYJ103	10K	li
R15	ERJ3GEYJ104	100K	1 1	R89	ERJ3GEYJ103	10K	li
R16	ERJ3GEYJ473	47K	1 1				1 '
R17	Not Used			R90	ERJ3GEYJ104	100K	1
R18	ERJ3GEYJ564	560K	1	R91	ERJ3GEYJ104	100K	1 1
R19	ERJ3GEYJ103	10K	1	R92	ERJ3GEYJ104	100K	1
			l 1	R93	ERJ3GEYJ104	100K	
R20	ERJ3GEYJ183	18K	1	R94	ERJ3GEYJ103	10K	1 1
R21	ERJ3GEYJ223	22K	1	R95	ERJ3GEYJ103	10K	1 1
R22	ERJ3GEYJ183	18K	1	R96	ERJ3GEY0R00	0	1 1
R23	ERJ3GEYJ104	100K	1	R97	ERJ3GEY0R00	jo	1 1
R24	ERJ3GEYJ184	180K	1	R98	ERJ3GEY0R00	0	1
R25 R26	ERJ3GEYJ823	82K	1	R99	ERJ3GEY0R00	0	1 1
R27	ERJ3GEYJ333	33K	1				
R28	ERJ3GEYJ562 ERJ3GEY0R00	5.6K	1	R100	ERJ3GEYJ101	100	1
R29	ERJ3GEYJ472	0	1	R101	ERJ3GEYJ101	100	1
n29	ENJ3GE13472	4.7K	1	R102	ERJ3GEYJ101	100	1 1
R30	ERJ3GEYJ274	270K		R103	ERJ3GEYJ101	100	1
R31	ERJ3GEYJ103	10K	1	R104	ERJ3GEYJ100	10	1 1
R32	Not Used	100	1	R105	Not Used]
R33	ERJ3GEYJ222	2.2K		R106	ERJ3GEYJ820	82] 1 [
R34~36	Not Used	2.27	1	R107	ERJ3GEYJ220	22	1 1
R37	ERJ3GEY0R00	lo l	. 1	R108	ERJ3GEYJ101	100	1
R38	ERJ3GEYJ105	1 _{1M}	1 1	R109	Not Used		
R39	ERJ3GEYJ102	1K	1 1	R110	EB ISOEV WOO	L.,	1 1
1		"	'	R111	ERJ3GEYJ102 Not Used	1K	1 1
R40	Not Used			R112	ERJ3GEYJ102	1,2	
R41	ERJ3GEYJ100	10	1		Not Used	1K	1 1
R42	ERJ3GEYJ100	10	- i	R116	ERJ3GEYJ224	220K	
R43	Not Used	i	` 1	R117	ERJ3GEYJ271	270	1. 1.
R44	ERJ3GEYJ100	10	1 I	R118	ERJ3GEYJ392	3.9K	1
R45	ERJ3GEYJ100	10	1	R119	Not Used	5.51	' 1
R46	ERJ3GEYJ102	1K	1		1.00.000	[
R47	ERJ3GEYJ102	1K	1	R120	PQ4R10XJ000	lo i	1
R48	ERJ3GEYJ102	1K	1	R121	PQ4R10XJ000	lo	
R49	ERJ3GEYJ102	1K	.1	R122	Not Used	ľ	'
		1		R123	ERJ3GEYJ102	1K	1
R50	Not Used	1	- 1	R124	ERJ3GEYJ102	1K	1
	ERJ2GEJ124	120K	1	R125	ERJ3GEYJ102	1K	1
	Not Used	1		R126	ERJ3GEYJ102	1K	1 1
	ERJ2GEJ563	56K	1	R127	ERJ3GEYJ102	1K	i
	Not Used		- 1	R129	Not Used		'
	ERJ3GEYJ273	27K	1		·		·
	Not Used		1	R130	ERJ3GEYJ562	5.6K	1
	ERJ2GEJ153	15K	1	R131		0	i
	Not Used			R132		o	i
R59	Not Used	1	Ì	R133~139	Not Used	l	.
R60	ED 120EV 1400	L.,		<u>[</u>			J
	ERJ3GEYJ102	1K	1		Not Used	·	
	ERJ3GEYJ102	1K	1	R149	ERJ3GEYJ183	18K	1
1	ERJ3GEYJ222	2.2K	1	ŧ.			1
	ERJ3GEYJ334	330K	1		Not Used		
	ERJ3GEYJ103	10K	1			0	1
[ERJ3GEYJ472	4.7K	1		Not Used		
1100	ERJ3GEYJ124	120K	1	R155	ERJ3GEYJ823	82K	1

R157 R158 R159 R160~163 R164 R165 R166	Not Used ERJ3GEY0R00 Not Used ERJ3GEYJ103	o		R332	ERJ2GEJ103	10K	<u> </u>
R158 R159 R160~163 R164 R165 R166	Not Used	0	• •		E11020E0100	IIIV	1
R159 R160-163 R164 R165 R166			11	R333	ERJ2GEJ103	10K] 1
R160~163 R164 R165 R166	ERJ3GEYJ103	1	1 1	R334	ERJ2GEJ103	10K	1
R164 R165 R166		10K	1 1	R335	ERJ2GEJ103	10K	1
R164 R165 R166				R336	ERJ2GEJ103	10K	1
R165 R166		Legy	1 . 1	R337~349	Not Used		
R166	ERJ3GEYJ154	150K	!	I		l	
	ERJ3GEYJ183	18K	1	R350	PQ4R10XJ225	2.2M	1
	ERJ3GEYJ152 ERJ3GEYJ562	1.5K 5.6K				1	1
l l			1	1			
	ERJ3GEY0R00	0	1 1	1	}		1
R169	ERJ3GEY0R00	0	1				
	Not Used						
R171	Not Used		1		i .	ł	
R172	ERJ3GEYJ222	2.2K	1 1	1		1	
	ERJ3GEYJ101	100	1 1	1		1	
R174	ERJ3GEYJ222	2.2K	1 1			1	
R175	ERJ3GEYJ102	1K	1 1			(CAPACITORS)	
R176	ERJ3GEYJ104	100K		C1	ECST0GX476	47	1 1
R177	ERJ3GEYJ152	1.5K	1 1	C2	ERJ3GEYJ392	3.9к	1 1
	ERJ3GEY0R00	lo	1 1	СЗ	PQCUV1E104MD	0.1	1 1
	ERJ3GEYJ102	1K		C4	PQCUV1E104MD	0.1	li
· · · · · ·			1 1	C5	ECUV1H123KBV	0.012	1 ;
R180	ERJ3GEYJ824	820K	1 1	C6	ECUV1H123KBV	0.012	1 1
	ERJ3GEYJ681	680	;	C7	PQCUV1C224ZF	0.22	1 '
	ERJ3GEYJ102	1K		C8	ECST0JY106	10 8	
	ERJ3GEYJ103	10K		IC9	ECST0JY335	3.3	
	Not Used				2031001000	3.3	} '
			i I	C10	PQCUV1E104MD	0.1	1
	Not Used	1	1 1	C11	ECST0GY226	22	1
	ERJ3GEY0R00	0	1 1	C12	PQCUV1E104MD	0.1 S	1
	ERJ3GEYJ102	1K	1 1	C13	ECUV1H220JCV	22P	1 1
	PQ4R10XJ221	220	1 1	C14	ECUV1H180JCV	18P	1 1
R198~299 I	Not Used		1 1	C15	ECUV1H102KBV	1000P	1
			1 1	C16	ECUV1H153KBV	0.015 S	1 1
	Not Used		1 1	C17	ECUV1H153KBV	0.015 S	1 1
	ERJ2GEJ103	10K	1	C18	ECUV1H101JCV	100P	1 1
	ERJ2GEJ103	10K	1	C19	ECUV1H102KBV	1000P	1
	ERJ2GEJ103	10K	1	į.		· ·	
	ERJ2GEJ103	10K	1 1	C20	PQCUV1C105ZF	1 S	1
	ERJ2GEJ103	10K	1	C21	ECUV1H822KBV	0.0082	1
	ERJ2GEJ103	10K	1 1	C22	ECST0JX226	22	1
	ERJ2GEJ103	10K	1 1	C23	PQCUV1E104MD	0.1	1
	ERJ2GEJ103	10K	1	C24	PQCUV1E104MD	0.1	1
R309 E	ERJ2GEJ103	10K	1	C25	ECUV1H103KBV	0.01 S	1
- 1		.	1 1	C26	PQCUV1H103KB	0.01 S	1 1
	ERJ2GEJ103	10K	1		PQCUV1H223MD	0.022	1 1
	ERJ2GEJ103	10K	1	C28	ECST0JY475	4.7	1
1	ERJ2GEJ103	10K	1	C29	ECST0JY106	10 S	1
	ERJ2GEJ103	10K	1	1		1	
1	ERJ2GEJ103	10K	1	C30	ECST0JY475	4.7	1
	ERJ2GEJ103	10K	1	C31	PQCUV1E104MD	0.1	1
	ERJ2GEJ103	10K	- 1	C32	ECST0JY106	10 S	1
	ERJ2GEJ103	10K	1	C33	PQCUV1E104MD	0.1	1
	ERJ2GEJ103	10K	1	C34	PQCUV1C105ZF	1 S	1
R319 E	ERJ2GEJ103	10K	1 1	C35	PQCUV1C105ZF	1 1 S	[1]
				C36	ECST0JY106	10 S	1
R320 E	ERJ2GEJ103	10K		C37	PQCUV1E104MD	0.1	1 1
R321 E	ERJ2GEJ103	10K	1	C38	PQ4R10XJ000	0	1 1
R322 E	ERJ2GEJ103	10K	1	C39	Not Used		
	ERJ2GEJ103	10K	1		-	1	
. 1	ERJ2GEJ103	10K	1	C40	ECUV1H180JCV	18P	1 1
. 1	ERJ2GEJ103	10K		C41	PQCUV1H103KB	0.01 s	1 1
	ERJ2GEJ103	10K		1	Not Used	1	
	ERJ2GEJ103	10K	1 1	C43	PQCUV1E104MD	0.1 S	1 1
	ERJ2GEJ103	10K		C44	ECUV1E104ZFV	0.1 S	
E .	ERJ2GEJ103	10K		C45	ECUV1H103KBV	0.01 S	
		1.5.	'	C45	Not Used	J	'
	ERJ2GEJ103	10K	1	C40 C47	ECEA0JK221	220	1 1
R330 E		lion i	1 1	C47	LOEAUUNEEI	احدن	'

Ref. No.	Part No.	Part Name & Description	n	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
C49	ECST0GY226	22		1			(COILS)	
050	F0070 N/400	1.0	_	1 . 1	L201	PQLQR2N1R0KT	COIL	1
C50	ECST0JY106	10	S	1 1	L202	PQLQR2N1R0KT	COIL	1
C51	ECST0GY226	22		1 1	L203	PQLQR2M4N7K	COIL	1
C52~59	Not Used			l 1	L204	MQLRE10NJF	COIL	1
				i i	L206	MOLRE12NJF	COIL	1
C60	Not Used				L207	MQLRE10NJF	COIL	1
C61	ECUV1H180JCV	18P		1 1	L208	MQLRE10NJF	COIL	1 1
C62	ECST0JX226	22		1 1	L209	PQLQR2M4N7K	COIL	1
C63	PQCUV1H683MD	0.068	S	1 1	L210	PQLQR2M4N7K	COIL	1
C64	PQCUV1C105ZF	1	S	1 1 I	L213	PQLQR2M4N7K	COIL	1 1
C65	PQCUV1H473MD	0.047		I i I	L220	MQLRE10NJF	COIL	i
C66	ECSTOJY106	10	S	1 1				1 '
C67	PQCUV1C105ZF	l ₁	s	1 1	1			1 1
C68	PQCUV1C105ZF	l ₁	s	i	L221	PQLQR2M8N2KT	COIL	1
C69	PQCUV1C105ZF	li	s		C233	MQLRE10NJF	COIL	
1500	. 40071010021	1 '	·	'	0233	MIGENE TONOP	COL	'
C70	PQCUV1C105ZF	1	s	1 1	1	Į.		- I
C71	ECUV1H222KBV	0.0022	J	1 1	1	į.	(OCOULATORS)	1 1
	Not Used	0.0022			VC0004	DOV/2007	(OSCILLATORS)	1.1
	Not Used	1			VC0201	PQV022Z	OSCILLATOR	1 1
C74	l e	eep		,	VC0202	PQV021Z	OSCILLATOR	1 1
1 1	ECUV1H680JCV	68P		1 1]	l	1 1
1 1	PQCUV1C105ZF	11	_	1 1			į.	
C76	ECUV1H153KBV	0.015	S	1 1			(SAW FILTERS)	1 1
1 1	ECST0JX226	22		1	F201	PQVCM21M8PJ2	CERAMIC FILTER	1 1
C78	PQCUV1C105ZF	1	S	1	F202	PQVSM914E11L	CERAMIC FILTER	1
C79	Not Used	į		1	F203	PQVSM959E11L	CERAMIC FILTER	1 1
1 1		i.			F204	EZFN959AM01	CERAMIC FILTER	1 1
	PQ4R10XJ000	0 .		1 1				1 1
C81	PQCUV1C105ZF	[1	s	1				1 1
C82	PQCUV1C105ZF	1	s	1			(OTHERS)	1 1
C83~99	Not Used				VC201	PQCVTZB10ZA	TRIMMER CAPACITOR	1 1
					X201	PQVC01280N4Z	CRYSTAL OSCILLATOR	1 1
C100	PQCUV1C105ZF	l ₁	s	1	CN201	PQJS10A82Z	CONNECTOR	1 ; 1
	Not Used	ľ	١	'	1011201	r GOSTONOZZ	CONNECTOR	'
	1101 0000							1
C200	ECUV1H100DCV	10P	s	1	Į.	1	ľ	1 1
1 1	ECUV1E104ZFV	0.1	s	1	1			1 1
	ECUV1H561JCV	560P	٦		1			1 1
0202	ECOATUSOISCA	DOUP		' 1	1			1 1
J1	ECUV1H222KBV	2200P		1	1			1 1
[]	LOGVINEZZINOV	122001		'	1	İ		1 1
1 1				ŀ	i i			
l i								
1					1	1	(RESISTORS)	1 1
			1		R201	ERJ3GEYJ100	10	1 1
1					R202	ERJ3GEYJ150	15	
		. .			R203	ERJ3GEYJ102	1K	
					R204	ERJ3GEYJ153	15K -	1 1
, ,		1					Liou -	1 1
1 1		1	- 1		IR205	•	HEV	1 . 1
					R205	ERJ3GEYJ153	15K	1 1
		RE UNIT PARTS			R206	ERJ3GEYJ153 ERJ3GEYJ563	56K	1 1
		RF UNIT PARTS			R206 R207	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470	56K 47	1 1
PCB200	POI P10154S				R206 R207 R208	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104	56K 47 100K	1 1 1
PCB200	PQLP10154S	RF UNIT PARTS P.C.BOARD ASS'T (RTL)		1 .	R206 R207	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470	56K 47	1 1
PCB200	PQLP10154S			1	R206 R207 R208 R209	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272	56K 47 100K 2.7K	1 1 1
PCB200	PQLP10154S	P.C.BOARD ASS'T (RTL)		1	R206 R207 R208 R209	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272	56K 47 100K 2.7K 100K	1 1 1 1 1
		P.C.BOARD ASS'T (RTL)			R206 R207 R208 R209 R210 R211	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122	56K 47 100K 2.7K 100K 1.2K	1 1 1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC		1	R206 R207 R208 R209 R210 R211 R212	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ1561	56K 47 100K 2.7K 100K 1.2K 560	1 1 1 1 1 1
IC201		P.C.BOARD ASS'T (RTL)			R206 R207 R208 R209 R210 R211 R212 R213	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470	56K 47 100K 2.7K 100K 1.2K 560	1 1 1 1 1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC		1	R206 R207 R208 R209 R210 R211 R212 R213 R214	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104	56K 47 100K 2.7K 100K 1.2K 560 47	1 1 1 1 1 1
IC201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC		1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470	56K 47 100K 2.7K 100K 1.2K 560	1 1 1 1 1 1 1
IC201 IC202	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC		1	R206 R207 R208 R209 R210 R211 R212 R213 R214	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ272 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104	56K 47 100K 2.7K 100K 1.2K 560 47	1 1 1 1 1 1 1 1 1
IC201 IC202 Q201	PQVIM64084GP	P.C.BOARD ASS'T (RTL) (ICS) IC		1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ122 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ561	56K 47 100K 2.7K 100K 1.2K 560 47	1 1 1 1 1 1 1 1 1
IC201 IC202 Q201	PQVIM64084GP PQVIPC2746TE	P.C.BOARD ASS'T (RTL) (ICS) IC (TRANSISTORS)		1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ102 ERJ3GEYJ102 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 Not Used	56K 47 100K 2.7K 100K 1.2K 560 47	1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202	PQVIM64084GP PQVIPC2746TE 2SC4099NT106	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI)	S	1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ102 ERJ3GEYJ102 ERJ3GEYJ561 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	S	1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ102 ERJ3GEYJ102 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ561 Not Used	56K 47 100K 2.7K 100K 1.2K 560 47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 † 1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ561 Not Used ERJ3GEYJ000 ERJ3GEYJ100	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204 Q205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)	SS	1 † 1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ561 Not Used ERJ3GEYJ000 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204 Q205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 † 1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R221	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ470 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ103	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204 Q205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 † 1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R221 R222	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ122 ERJ3GEYJ470 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ123 ERJ3GEYJ100 ERJ3GEYJ100 ERJ3GEYJ100 ERJ3GEYJ100 ERJ3GEYJ100	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1 1 1
IC201 IC202 Q201 Q202 Q203 Q204 Q205	PQVIM64084GP PQVIPC2746TE 2SC4099NT106 2SC4099NT106 2SC4571R77 2SC3356R24 2SC4571R77	P.C.BOARD ASS'T (RTL) (ICS) IC IC (TRANSISTORS) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI) TRANSISTOR(SI)		1 † 1 1 1	R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R221	ERJ3GEYJ153 ERJ3GEYJ563 ERJ3GEYJ470 ERJ3GEYJ104 ERJ3GEYJ104 ERJ3GEYJ122 ERJ3GEYJ561 ERJ3GEYJ561 ERJ3GEYJ561 Not Used Not Used ERJ3GEYJ000 ERJ3GEYJ123 ERJ3GEYJ103	56K 47 100K 2.7K 100K 1.2K 560 47 100K 560 0 12K	1 1 1 1 1 1 1 1 1 1 1

R225 ERJ3GEYJ470 47 R226 ERJ3GEYJ470 47		
R226 ERJ3GEYJ470 47		1 1
[7]		1
R227 ERJ3GEYJ100 10		1
R228 ERJ3GEYJ561 560		1
R229 ERJ3GEYJ560 56		1
R230 ERJ3GEYJ563 56K		1
R231 ERJ3GEYJ153 15K		1
R232 ERJ3GEYJ153 15K		1
R233 ERJ3GEYJ470 47		1
R234 ERJ3GEYJ100 10		1 1
R235~239 Not Used		
R240 ERJ3GEYJ272 2.7K R241-259 Not Used		1
R260 Not Used		
R261 ERJ3GEYJ000 0		1
R262~269 Not Used		'
R270 ERJ3GEYJ000 0		1
·		
·		
(CAPACITORS)		
C200 ECUV1H101JCV 100P		1
C201 Not Used		·
C202 ECST0JX226 22	s	1 1
C203 PQCUV1C105ZF 1	_	1
C204 ECUV1H101JCV 100P		1
C205 ECUV1H332KBV 0.0033		1
C206 ECUV1H472KBV 0.0047		1
C207 ECUV1H332KBV 0.0033	i i	1
C208 ECUV1H332KBV 0.0033		1
C209 ECUV1E104ZFV 0.1	s	1
C210 ECUV1H103KBV 0.01		1
C211 ECST0JX226 22	s	1 [
C212 ECUV1H103KBV 0.01		- 1
C213 ECUV1H101JCV 100P	ł	1
C214 Not Used		
C215 ECUV1H040CCV 4P		1
C216 ECUV1H103KBV 0.01		1
C217 ECUV1H270JCV 27P		1
C218 ECUV1E104ZFV 0.1	s	1
OZ19 NOLUSEG		
C220 ECUV1H020CCV 2P	1	1 .
C221 Not Used	_ 1	
C222 ECUV1H100DCV 10P	s	1
C223 ECUV1H270JUV 27P	Į	1
C224 ECUV1H270JUV 27P	l	- 1
C225 Not Used		
C226 Not Used C227 ECUV1H102KBV 0.001	.	
	l	!
C228 ECUV1H040CCV 4P C229 ECUV1H102KBV 0.001		1 1
C230	J	1
	ľ	<u>,</u>
C232 ECUV1H102KBV 0.001 C234 Not Used		1
C234 Not Used C235 ECUV1H101JCV 100P		1
C236 Not Used	. I	, ' I

Ref. No.	Part No.	Part Name & Description	Pcs/Set
C237	Not Used		
C238	ECUV1H040CCV	4P	1 1
C239	ECUV1H020CCV	2P	1
C240	ECUV1H040CCV	4P	1
C241	ECUV1H102KBV	0.001	1
C242	ECUV1H102KBV	0.001	1
C243	Not Used		
C244	ECUV1H102KBV	0.001	1
C245	ECUV1H101JCV	100P	1
C246	ECUV1H020CCV	2P	1
C247	ECUV1E104ZFV	0.1 S	1
C248	Not Used	.	
C249	ECST0JX226	22 S	1
C250	Not Used		
C251	ECUV1H102KBV	0.001	
C252	ECUV1C224KB	0.22	1
C253	ECUV1H562KBV	0.0056	1
C254	ECUV1H562KBV	0.0056	1
C255~259	Not Used		
C260	Not Used		
C261	Not Used		- 1
C262	ECUV1H101JCV	100P	1
L205	ECUV1H101JCV	100P	1

	- ', ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KX-T9300DM	-	
		ACCESSORIES		
A1	KX-A35G-1	AC ADAPTOR	Λ	1
A2	PQJA10032Z	TELEPHONE CORD		1
А3	PQKC10003Z1	BELT CLIP	s	1
A4	PQKK10045Z1	BATTERY COVER (for BASE UNIT)	s	1
A5	PQKK10046Z1	BATTERY COVER (for PORTABLE UNIT)	s	1
A6 . A7	PQQX11457Z	INSTRUCTION BOOK		1
A8	PQQT11240Z	TEL CARD LABEL		1
		PACKING MATERIALS		
P1	XZB20X35A01	PROTECTION COVER		1
		(for BASE UNIT)		
P2	XZB10X25A02	PROTECTION COVER		1
		(for PORTABLE UNIT)	- 1	
P3	PQPN10362Z	INNER BOX		1
P4	PQPN10363Z	ACCESSORY BOX		1
P5	PQPK11909Z	GIFT BOX	İ	1
		FIXTURE AND TOOL		
Z1	PQZZ10K13Z	EXTENSION CORD, 10P		2
Note:				
PQZZ10	K13Z is neccessity for	servicing.		

ORDER NO. KM49602026C2

Service Manual

WIRELESS PHONE

and Technical Guide

Telephone Equipment

KX-T9300DM

(for Denmark)



SPECIFICATIONS

	Base Unit (KX-T9300DMH)	Portable Handset (KX-T9300DMR)
Power Source:	AC Adaptor (KX-A35G-1)	Rechargeable Ni - Cd battery
Receiving Frequency:	40 channels within 914.0125 ~914.9875 MHz	40 channels within 959.0125 ~959.9875MHz
Receiving Method:	Double super heterodyne	Double super heterodyne
Transmitting Frequency:	40 channels within 959.0125 ~959.9875 MHz	40 channels within 914.0125 ~914.9875 MHz
Oscillation Method:	PLL synthesizer	PLL synthesizer
Detecting Method:	Quadrature Discriminator	Quadrature Discriminator
Tolerance of OSC Frequency:	±2.5 kHz	±2.5 kHZ
Modulation Method:	F3 (frequency modulation)	F3 (frequency modulation)
ID Code:	20-bit written in ROM	20-bit written in ROM
Dial Mode:		Tone (DTMF)/Pulse
Redial:	·	Up to 30 digits
Save:		Up to 30 digits
Power Consumption:		20 hrs at Standby, 3 hrs at Talk
Dimension (H×W×D):	$2^{1/8}"\times 5^{27/32}"\times 7^{15/32}"$ (54×148×190 mm)	$7^{7}/8^{11} \times 2^{5}/32^{11} \times 1^{13}/32^{11}$ (200×55×36 mm)
Weight	0.95 lbs. (430g) with battery	0.51 lbs. (230g) with battery

Design and specifications are subject to change without notice.

Panasonic

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

When you mention the serial number, write down all 11 digits. The serial number may be found on the label affixed to the bottom of the unit.

FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help prevent recurring malfunctions.

- 1. Cover plastic parts boxes with aluminum foil.
- 2. Ground the soldering irons.
- 3. Use a conductive mat on worktable.
- 4. Do not grasp IC or LSI pins with bare fingers.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

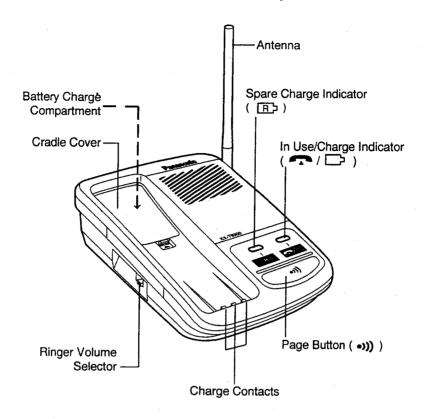
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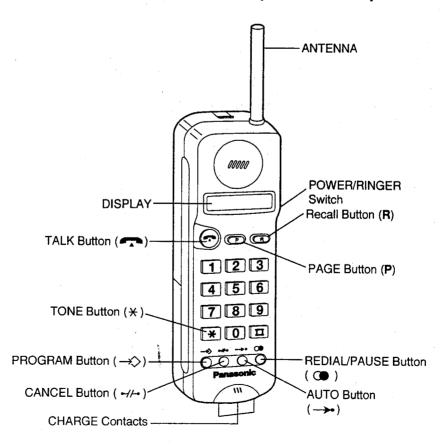
25~2
28~30
31, 32
33, 34
35
36, 37
38~43
44, 45
46~51
52~59
02 00
60
61
62
62
63~68
60~00 60~73

LOCATION OF CONTROLS

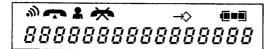
Base Unit (KX-T9300DMH)



Portable Handset (KX-T9300DMR)



Display



(This display shows all the possible configurations.)

01-03-40

The call duration is displayed during a conversation. (Example: 1 hour 3 minutes 40 seconds)

→\$

The unit is in programming

mode.

•))) (flashing) You are paging the other unit, or vice versa.

The unit is making or answering a call.

(flashing)

An outside call is coming.

2

The unit is in the direct call mode.

グ

The unit is in the outgoing call restriction mode.

(flashing)

The handset battery needs charging.

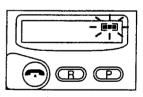
STANDARD BATTERY LIFE

If your Panasonic battery is fully chaged:

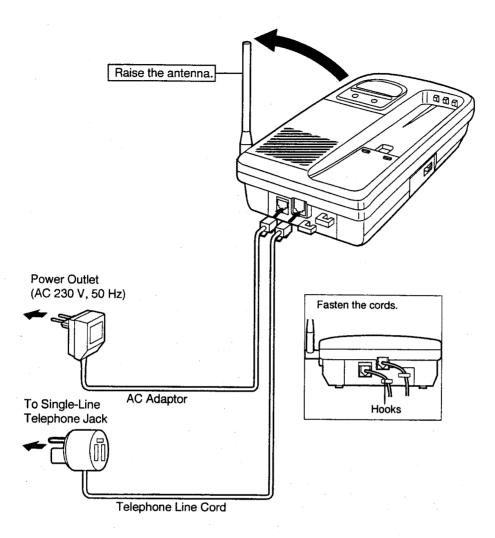
While the phone is in use (TALK)	Up to about 4 hours
While the phone is not is use (Stand-By)	Up to about 50 hours

(Battery life may vary depending on usage conditions and ambient temperature.)

Recharge the handset battery, when " • • " flashes or beep tones sound every 15 seconds during a conversation.



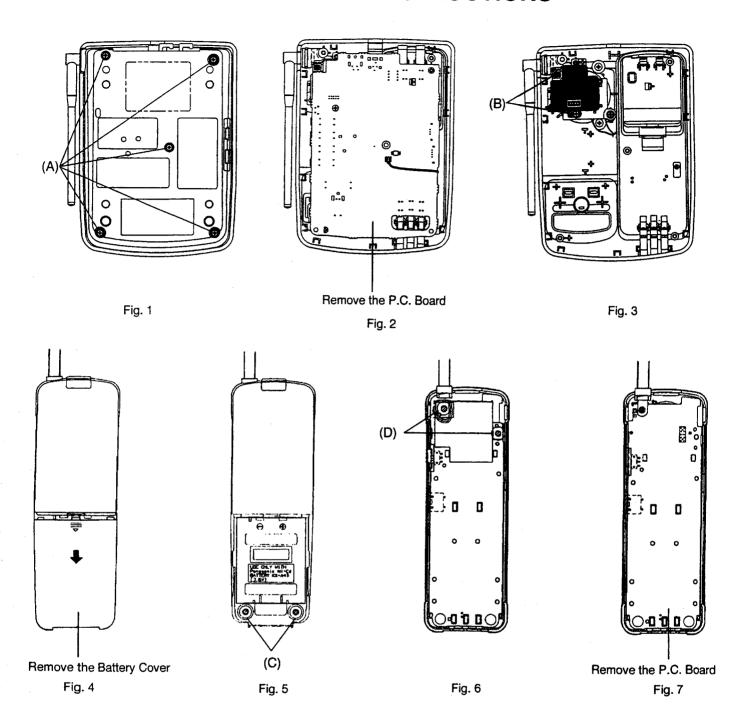
CONNECTION



Notes:

- USE ONLY Panasonic AC ADAPTOR KX-A35G-1.
- The AC adaptor must remain connected at all times.(If may feel warm during use. This is normal.)
- If you connect a reserve telephone on the same line.

DISASSEMBLY INSTRUCTIONS



Ref No.	Rrocedure	Shown in Fig. –	To Remove	Remove
1	1	1	Lower Cabinet	Screws (3 ~12)(A) -5
2	1, 2	2	Main P.C. Board	Remove the P.C. Board
3	1~3	3	RF Unit	Screws (3 ~10)(B) -2
4	5	4	Battery Cover	Remove the Battery Cover
5	5, 6	5	Rear Cabinet	Screws (2.6 ~12)(C) ~2
6	5~7	6	RF Unit	Screws (2.6 -12)(D) -2
7	5~8	7	P.C. Board	Remove the P.C. Board

HOW TO REPLACE FLAT PACKAGE IC

■ PREPARATION

SOLDER - - - - - Sparkle Solder 115A-1, 115B-1
OR
Almit Solder KR-19, KR-19RMA

Soldering iron - - - - Recommended power consumption will be between 30 W to 40 W.

Temperature of Copper Rod 662 ± 50 °F (350 ±10 °C)

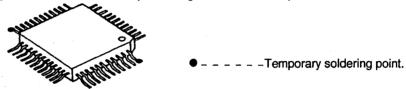
(An expert may handle 60~80~W iron, but beginner might damage foil by overheating.)

· Flux - - - - - - HI115 Specific gravity 0.863

(Original flux will be replaced daily.)

■ PROCEDURE

1. Temporary fix FLAT PACKAGE IC by soldering on two marked 2 pins.

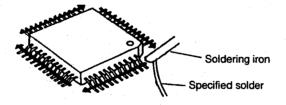


*Most important matter is accurate setting of IC to the corresponding soldering foil.

2. Apply flux for all pins of FLAT PACKAGE IC.

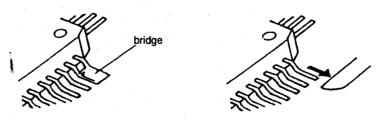


3. Solder employing specified solder to direction of arrow, as sliding the soldering iron.



■ MODIFICATION PROCEDURE OF BRIDGE

- 1. Re-solder slightly on bridged portion.
- 2. Remove remained solder along pins employing soldering iron as shown in below figure.



CPU DATA KX-T9300DMH (BASE UNIT)

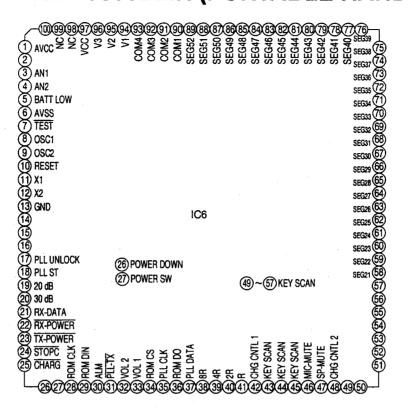
IC4 MN150808KJAK

64 63 62 61 60 59 58 57 56	(55)(54)(53)(52)(51)(50)(49)
THESET TO SO OS CO	S. CHG LED IN USE ROM CS ALARM ROM D0 PLL DATA PLL CLK (44)
3 DIAL PULSE (4) (NSA)	(46) (45)
5 E. RECALL 6 ARAM MUTE	(44) TONE (43)
7 MIC MUTE 8 SP MUTE	н (42) м (41)
9 BELL	(40) (39)
(10) LINE VOL (11) DIAL TONE	(39) (38) (37)
(12) (13) M.CHG	36) s. chg cont (35)
(14) S. CHG (15) PAGE	ROM CLK 34
(15) PAGE (16) POW DOWN (17) (18) (19) (20) (21) (22) (23) (24) (25) (17) (18) (19) (20) (21) (22) (23) (24) (25)	000000
17(18)(19)(20)(21)(22)(23)(24)(25)	(26)(27)(28)(29)(30)(31)(32)

Pin	Description	1/0	High	High-Z	Low	Pin	Description	1/0	High	High-Z	Low
1	(0.12 mA RLY)	0	ON			33	ROM-DIN	0			
2	HOOK RLY	0	ON	į.		34	ROM-CLK	0			
3	DP	0	MAKE	ľ	BREAK	35	Spare-CHARGE CTL	0	Normal		Tricle
4	(NSA)	0	ON		1	36	·			Ì	
5	(EARTH RLY)	0	ON			37	Strobe 2	0			Strobe
6	ALARM MUTE	0	ON		i i	38	Strobe 3	0			Strobe
7	MIC MUTE	0	ON	Î		39	Strobe 4	0			Strobe
8	SP MUTE	0	ON			40	Strobe 5	0			Strobe
9	BELL	1	BELL Reception	4		41	KEY DATA IN	i	Normal	1	Key IN
10	LINE VOL		Without VOL		With VOL	42	KEY DATA IN	ı	Normal		Key IN
11	DIAL TONE	-	With TONE		Without TONE	43	KEY DATA IN	1	Normai	1	Key IN
12				l —	Normal	44	KEY DATA IN	ı	Normal	1	Key IN
13	CHARGE	1			CHARGE	45]
14	Spare-CHARGE		}		CHARGE	46	·				•
15	PAGE KEY				P.DOWN	47]
16	POWER DOWN		Normal		P.DOWN	48					
17	TX DATA 8R	0				49	PLL-CLK	0		•	1 1
18	TX DATA 4R	0]	50	PLL-DATA	0			
19	TX DATA 2R	0				51	ROM-DOUT	- 1		ļ	
20	TX DATA R	0				52	ALARM	0	ON	ł	
21	LINE MUTE	0	ON		Normal	53	ROM-CS	0	Active		Normal
22	RX MUTE	0	Normal		ON	54	IN USE LED	0	ON		
23	TX MUTE	0	ON		Normai	55	Spare CHARGE LED	0	ON		ŀ
24	PLL-RST	0	Normai		ON	56	External Interrupt Input		Normal		
25	FLS1 (20)	1	Weak electric field		Input Sens.	57	Vss	1			1
26	FLS2 (30)	1	Weak electric field		Input Sens.	58	CPU Clock	- 1			l
27	RX DATA					59	(3.581 MHz)	0			
28	PLL-UNLOCK		UNLOCK		LOCK	60	Power Source		Normal		
29	PLL-TX	0		Normal	ON	61	External Interrupt Input	1	Normal		
30	TX POWER	0		POW-OFF	POW-ON	62		0			
31	VOL. 1	0		OFF	ON	63	RESET Input		Normal		RESET
32	VOL. 2	0		OFF	ON	64					

CPU DATA KX-T9300DMR (PORTABLE HANDSET)

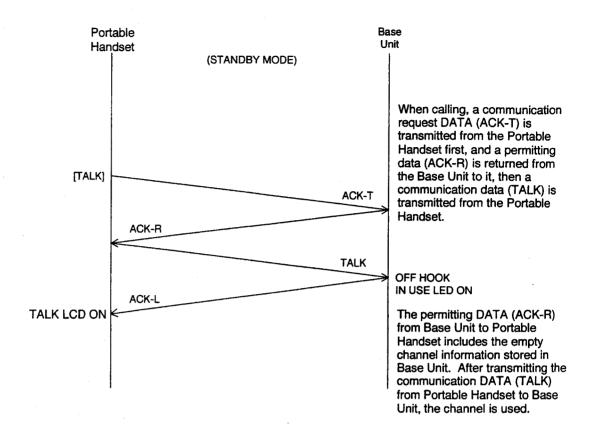
IC6 PQVI4829C23H



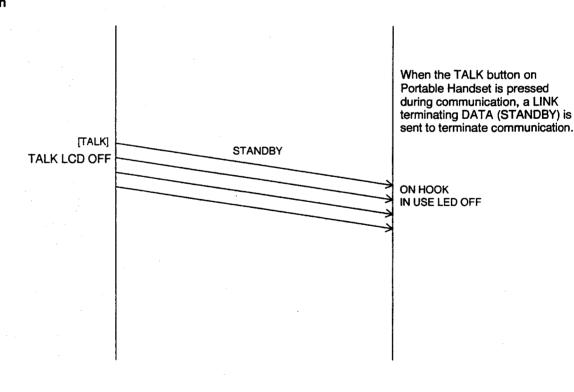
Pin	Description	1/0	High	High-Z	Low	Pin	Description	1/0	High	High-Z	Low
1			Normal			36	ID ROM-DOUT	1			
2	,				Normal	37	PLL-DATA	0			
3					Normal	38	TX DATA 8R	0			
4			 		Normal	39	TX DATA 4R	0			
5	BATT-LOW					40	TX DATA 2R	0			
6					Normal	41	TX DATA R	. 0		-	
7			Normal		l —	42	CHGCTL1	0	Normal		Trickle
8	CPU Clock	1				43	SW DATA IN	1			
9	(4 MHz)	0				44	SW DATA IN	ı			
10	RESET	1	RESET		Normal	45	SW DATA IN	-1			
11	SUB Clock	1	1			46	MIC-MUTE	1	ON		Normal
12	(32.768 kHz)	0	1 1			47	SP-MUTE	0	Normal		ON
13	GND		l —		Normal	48	(Not used)	0			Normal
14		- 1	Normal		•	49	Strobe	0			Strobe
15		0			Normal	50	Strobe	0			Strobe
16		0			Normal	51	Strobe	0			Strobe
17	PLL-UNLOCK	1	UNLOCK	1	LOCK	52	Strobe	.0			Strobe
18	PLL-ST	0	·			53	Strobe	0			Strobe
19	FLS1 (20)	1	Weak electric field		Input Sens.	54	KEY DATA IN	i	Normal		Key IN
20	FLS2 (30)	1	Weak electric field		Input Sens.	55	KEY DATA IN	4	Normal		Key IN
21	RX DATA	1				56	KEY DATA IN	1	Normal		Key IN
22	RX-POW	0		Normal	ON	57	KEY DATA IN	ł	Normal		Key IN
23	TX-POW	0		Normal	ON	58~89	SEG21-52	0			· • • • • • • • • • • • • • • • • • • •
24	STOPC					90	COM1	0		-	
25	CHARGE	l i	Normal		CHARGE	91	COM2	0			
26	POWER DOWN	l ı	Normal		P. DOWN	92	COM3	0			
27	POWER SW	0	Normal		ON	93	COM4	0			
28	ID-ROM CLK	0				94			Normai		
29	ID-ROM DIN	0				95					
30	ALARM	Ō		Normal		96	8				
31	PLL-TX	0		Normal	ON	97	Source		Normal		
32	VOL. 1	Ō				98					1
33	VOL. 2	Ιō	[99					1
34	ID ROM-CS	lo	}			100					Normal
35	PLL-CLK	Ō			·						. [

EXPLANATION OF CPU DATA COMMUNICATION

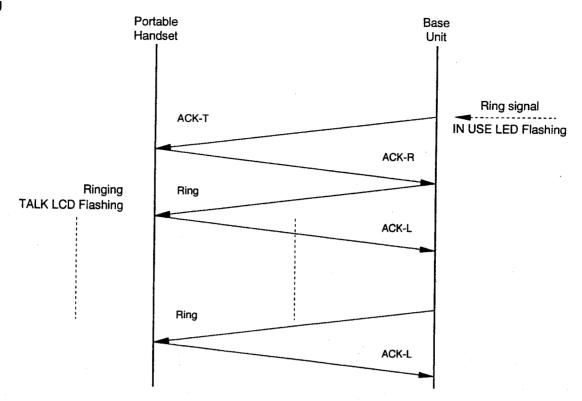
1. Calling



2. To terminate Communication



3. Ringing



After detecting the Ring signal from circuit, the Base Unit sends a LINK form requesting DATA (ACK-T) to the Portable Handset. When receiving this data, the Portable Handset returns a permitting DATA (ACK-R) to the Base Unit. After receiving the returned DATA from the Portable Handset, the Base Unit sends a ring signal DATA (Ring), then the Portable Handset starts ringing.

4. Ports for transmitting and receiving of data

Portable Handset: transmitting 38~41 Pin receiving 21 Pin

Base Unit: transmitting 17~20 Pin receiving 27 Pin

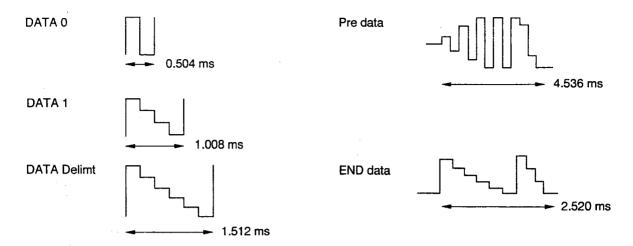
5. Wave form of DATA used for cordless transmission and reception

The DATA which is transmitted from the Portable Handset to the Base Unit is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data of P1.

The DATA which is transmitted from the Base Unit to the Portable Handset is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data of P2.

BASE UNIT PORTABLE HANDSET

Transmitting DATA Format



6. When LINKing

Base unit	Pre data	START	CHANNEL	ID CODE	CNT COD	SET No.	COMMAND	Parity	END
			8 bit	20 bit	4 bi	t 4 bit	8 bit	4 bit	
Portable Handset	Pre data	START	CHANNEL	ID CODE	SET No.	COMMAND	Parity E	ND	

When LINKing from the Portable Handset (when becoming STBY to TALK), DATA is transmitted in above format. The combined portion of DATA 0 and DATA 1 is transmitted in LINK requesting DATA format first. Then, when LINK OK (ACK-R) DATA is returned from the Base Unit, it is sent as LINK form DATA after changing the combination of DATA 0 and DATA 1. And the DATA Delimt is between each Frame as a stop.

The contents of LINK requesting DATA and LINK form DATA are different depending on each operation.

7. Dial Data

Portable Handset

START	ID CODE	COMMAND	Parity	END
33 bit				

During dialing, the dial data is sent from the Portable Handset to the Base Unit in the above-mentioned format. The lower significant 4 bits of the command is changed by the dial number. When the key is kept depressed during tone dialing, the data (CONTINUE DATA) informing that the key is continued depressed is sent to the Base Unit.

NOTE

1,000,000 kinds of the security code are available for the model KX-T9300DM. Each time the portable unit is set on the cradle of the base unit (for charging), the CPU automatically change the security code.

FREQUENCY TABLE (MHz)

r								
	Base Unit TX							
	Portable Handset RX							
СН								
Un		СН						
1	959.0125	21	959.5125					
2	0375	22	5375					
3	0625	23	5625					
4	0875	24	5875					
5	1125	25	6125					
6	1375	26	6375					
7	1625	27	6625					
8	1875	28	6875					
9	2125	29	7125					
10	2375	30	7375					
11	2625	31	7625					
12	2875	32	7875					
13	3125	33	8125					
14	3375	34	8375					
15	3625	35	8625					
16	3875	36	8875					
17	4125	37	9125					
18	4375	38	9375					
.19	4625	39	9625					
20	4875	40	9875					

							
	Base Unit RX Portable Handset TX						
СН		011					
On		CH					
1	914.0125	21	914.5125				
2	0375	22	5375				
3	0625	23	5625				
4	0875	24	5875				
5	1125	25	6125				
6	1375	26	6375				
7	1625	27	6625				
8	1875	28	6875				
9	2125	29	7125				
10	2375	30	7375				
11	2625	31	7625				
12	2875	32	7875				
13	3125	33	8125				
14	3375	34	8375				
15	3625	35	8625				
16	3875	36	8875				
17	4125	37	9125				
18	4375	38	9375				
19	4625	39	9625				
20	4875	40	9875				

ADJUSTMENTS (KX-T9300DMH)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the telephone line output on the base unit.
- 3. While pressing SW1, set to SW2 to on.
- 4. After hearing "Pi" sound, release SW1.
- 5. Press twice (•)) button (The unit becomes Test Mode on CH1 Talk)

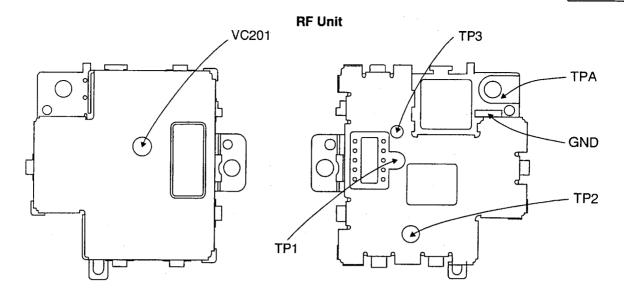
Note: When selecting optional channel (ex. CH23), press once button after above preparations 4 item (Unit becomes CH01). Next press twice SW3 (CH01 + CH02 = CH03) and press twice SW4 (CH03 + CH20 = CH23), then press once button. (Unit becomes Test Mode on CH23 Talk).

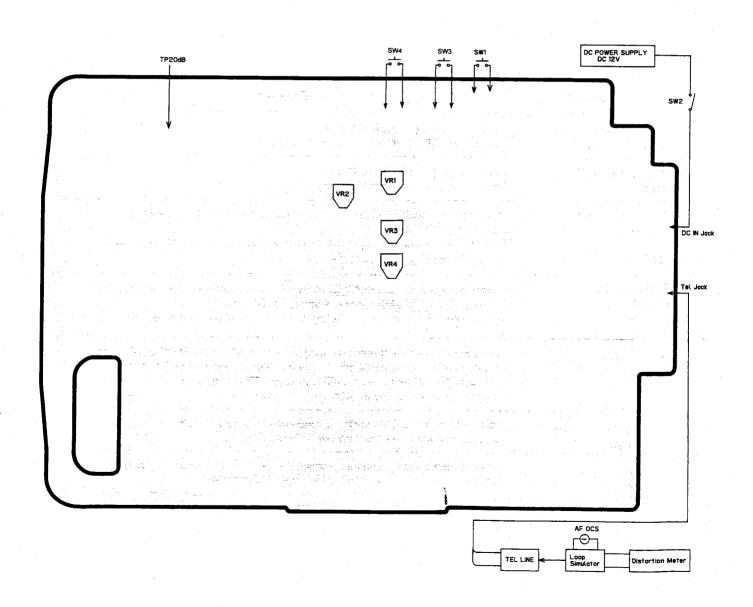
If your unit have below symptom, adjust for each item as table of adjustment on pages 14 and 15.

Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A)~(D), (F), (G) and (H).
Transmission sound for receiver is unstable.	Adjust the adjustment items (E).
The operating distance between base unit and portable hand- set is less than normal.	Adjust the adjustment items (I).

Item	Adjustment Item	Procedure			
(A)	RX VCO Voltage Check	Place the voltmeter probe at RF unit TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.			
(B)	TX VCO Voltage Check Place the voltmeter probe at RF unit TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.				
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBμVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.			
(D)	Standard Frequency Adjustment	Adjust VC201 so that transmission frequency is set 959.0125 MHz (CH1)±0.5 kHz. Connect frequency counter between TPA and GND.			
(E)	Telephone Line Output Level Adjustment	Connect the signal generator (914.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation +60 dBµVemf output level) to the RF unit TPA and GND. Adjust VR3 so that telephone line output level is –3.0 dBm ± 1.0 dB.			
(F)	Max Depth of Modulation Adjustment	Set the loop simulator to sending side. Adjust VR4 so that level is 4.6 kHz devi ± 0.2 kHz devi when input signal is follow. Line input signal: 1 kHz,+6 dBm/set load (1.55 V) RF input signal:+60 dBμVemf(1 mV, ~53 dBm), 0 kHz devi Line current: 40 mA			
(G)	Modulation Sensitivity Adjustment	Set the loop simulator to sending side. Adjust VR1 so that level is 2.7 kHz devi ± 0.2 kHz devi when input signal is follow. Line input signal: 1 kHz, –21 dBm/set load (70 mV) RF input signal:+60 dBμVemf(1 mV, –53 dBm), 0 kHz devi Line current: 30 mA			
(H)	12.8MHz Transmitter confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.			
(I)	TX power Confirmation Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm ±3 dB (10 mW~2.5 mW) Typ. 5.0 mW.				

Adjustment item (H) and (I): Refer to page 58.





ADJUSTMENTS (KX-T9300DMR)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

Adjustment Preparations

- 1. Connect the main P.C. Board to RF unit by the extension cord.
- 2. Connect a distortion meter (with AC voltmeter) to the SPK terminals (TP5) on the portable handset.
- 3. Connect 3.9 V to the battery terminals.
- 4. After pressing 1, 9, ** keys at the same time, turn Power SW on. After that, press P key (Test mode on standby).
- 5. Press key (Test Mode on CH1 Talk).

Note: When selecting optional channel, press 2 3 keys after pressing P key of adjustment preparation 4 item (ex. CH23). Next press key (Test Mode on CH23 Talk)

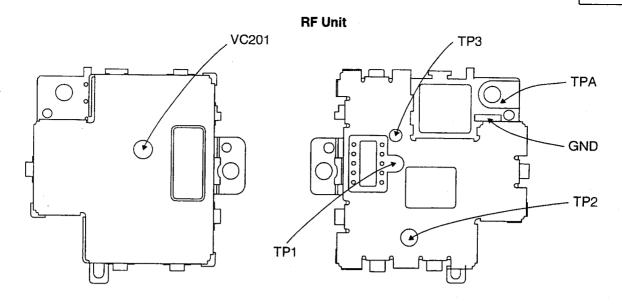
If your unit have below symptom, adjust for each item as table of adjustment on pages 16 and 17.

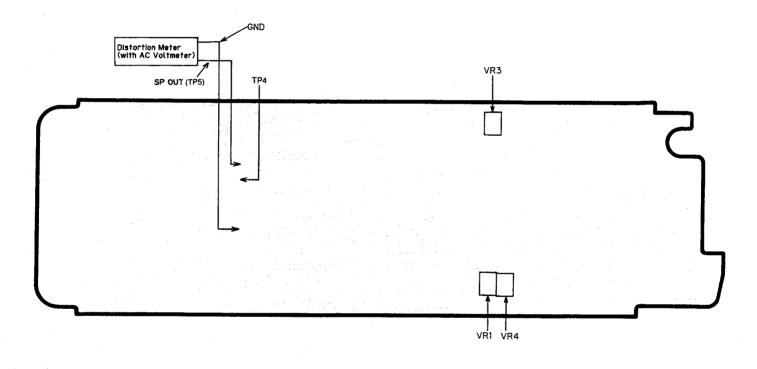
Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (C), (F) and (G).
Speaker level of portable handset is unstable.	Adjust the adjustment item (D).
Transmission sound for receiver is unstable.	Adjust the adjustment item (E).
The operating distance between base unit and portable handset is loss than normall.	Adjust the adjustment items (H).

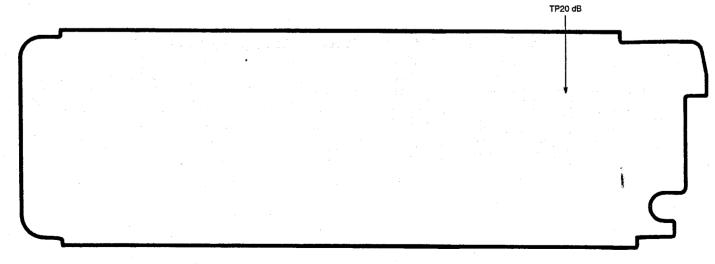
Item	Adjustment Item	Procedure
(A)	RX VCO Voltage Check	Place the voltmeter probe at TP2. Confirm that TP2 's voltage is within 0.5 V~2.5 V.
(B)	TX VCO Voltage Check	Place the voltmeter probe at TP3. Confirm that TP3 's voltage is within 0.5 V~2.5 V.
(C)	20 dB Electric Field Adjustment	While reduced level of S.S.G. set S.S.G. level when distortion of telephone line sending signal is 30 %. Confirm the level is less than 5 dBµVemf. If so, adjust VR1 so that brightness is equivalent whichever TP20 dB High and Low.
(D)	Receiving Level Adjustment	Connect a signal generator (914.0125 MHz, 1 kHz modulation frequency, 3 kHz modulation, +60 dB μ Vemf output level) to the RF unit TPA. Adjust VR3 so that the speaker output TP5 is –18.0 dB $m\pm$ 0.5 dB (85 mV \pm 1.7 mV).
(E)	Max Depth of Modulation Adjustment	Connect a modulation meter and signal generator [914.0125 MHz, 60 dB μ Vemf (1 mV,–53 dBm), unmodulation] in TPA and GND. Connect an AF oscillator [f=1 kHz, –19 dBm (87 mV) level] to the MIC terminals (TP4) and V _{ss} on the portable handset. Adjust VR4 to set the modulation to 4.4 \pm 0.2 kHz Devi.
(F)	Standard Frequency Adjustment	Adjust VC201 so that transmission ferquency is set 959.0125 MHz ⁺⁰ ₋₁ 500 Hz (CH1). Connect frequency counter between TPA and GND.
(G)	12.8 MHz Transmitter Confirmation	Connect the frequency counter between the TP1 and GND and confirm that the frequency is 12.8 MHz and that Vp-p is approximately 900 mV.
(H)	TX Power Confirmarion	Connect the Spectrum analyzer the TPA and GND and confirm that the level is +7 dBm ± 3 dB (10 mW~2.5 mW) Typ 5.0 mV.

Adjustment items (G) and (H): Refer to page 59.

Note: When selecting optional channel, press 23 keys after pressing Flash key of adjustment preparation 4 item (ex. CH23). Next press Talk key (Test mode on CH23 Talk).







INFORMATION

1. When you cannot remember password for Call restriction, and cannot release Call restriction mode -

PORTABLE HANDSET

- 1) Press Program button " → > ".
- 2) Press Cancel button " -//- ".
- 3) Press in order #, 9, 0, 0, 0. (Call restriction mode is released. But, when # button is pressed, reception sound is not heard.)
- 4) Press Program button "→>> ".
- 5) Press Cancel button " -//- " twice.
- 6) Press Program button "→> ".

(Password for Call restriction is canceled.)

Note: Keep above procedure secret from customers.

- 2. ROM for ID Code of Base Unit or Portable Handset is broken -
- 1) Replace ROM for ID Code of Base Unit or Portable Handset.
- 2) Input ID Code/ Country Code/ Model Code following procedure.

ID CODE SETTING

HOW TO SET BASE UNIT AND PORTABLE HANDSET TO TEST MODE

PORTABLE HANDSET

- 1) While pressing the Dial button 1 and 9 and X at same time, turn the Power switch "ON".
- Press Page button "P" once on the Portable Handset.
 The Portable Handset becomes Test Standby mode.

BASE UNIT

- 3) While pressing SW1 (refer to page 15), connect power supply to AC adaptor. "Pi" alarm sounds.
- 4) Press Page button "•)) " once on the Base Unit. The Base Unit becomes Test Standby mode.

PORTABLE HANDSET

- 5) Press Program button "→>> ".
- 6) Press Page button "P".
- 7) Enter ID code (7 digits).

Example: If you enter "000010" ID code, push [0], [0], [0], [0], [1], [0] keys.

- 8) Press Page button "P".
- 9) Press 1 key.
- 10) Press Page button "P". "Pi" alarm sounds.
- 11) Press 1 and 4 keys (It is country code for Denmark).
- 12) Press Page button "P".
- 13) If your unit is model No. KX-T9300DM, press ① and ① and ① keys (It is KX-T9300DM model code of Portable Handset).
- 14) Press Page button "P".
 - Portable Handset will make linkage to Base Unit.
 - "Pi..." alarm sounds.
- 15) Press Page button "P".
- 16) If your unit is model No. KX-T9300DM, press 1 and 0 and 1 keys (It is KX-T9300DM model code of Base Unit).
- 17) Press Program button "→> ".
- 18) Turn the Power switch to "OFF" to end the setting.

BASE UNIT

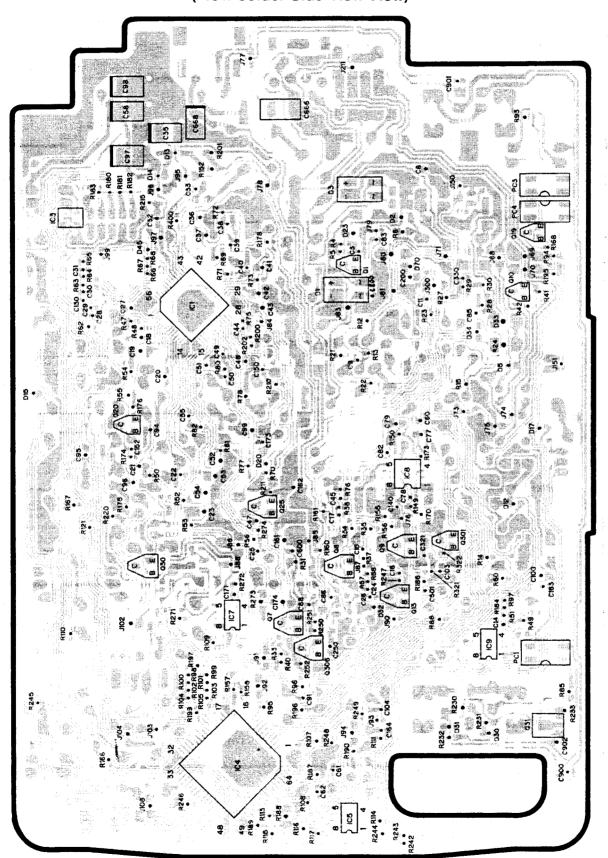
19) Press SW1 (refer to page 15) button to end the setting.

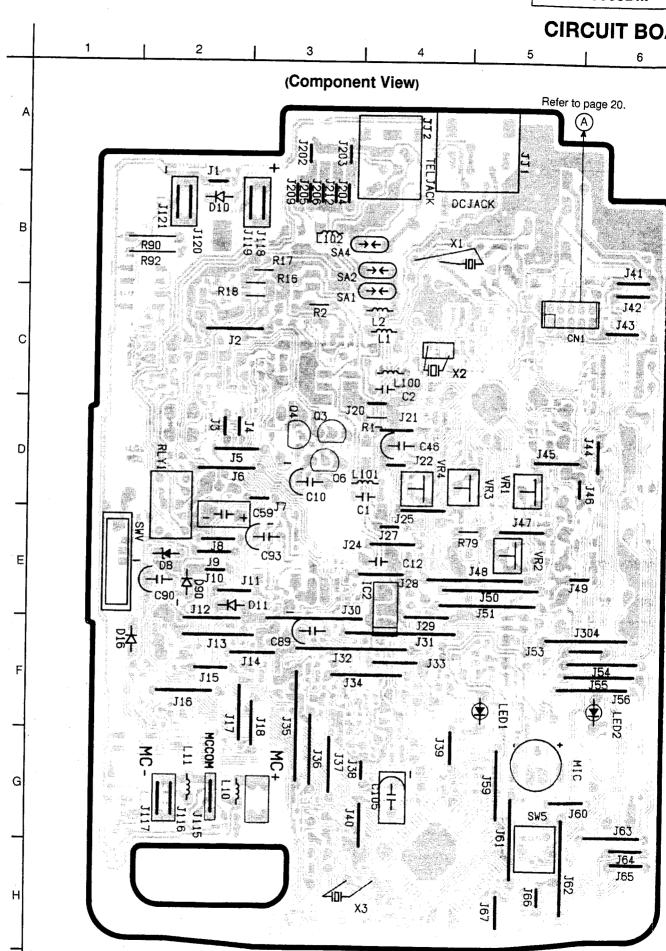
CIRCUIT BOARD (KX-T9300DMH) [RF UNIT] x2<u>01</u> В BXACO VC201 VC0201 L206 C223 •C222 R212 C216 0202 R214 D R261 CN 201 •R205 R231 R230 R228 C233• G Н

D (KX-T9300DMH)

7 | 8 | 9 | 10 | 11 | 12 |

(Flow Solder Side View View)





ORDER NO. KM49704324S0

Service Manual



WIRELESS PHONE

Telephone Equipment
KX-T9300AR/KX-T9300BL/KX-T9300DM
KX-T9300FL/KX-T9300HG/KX-T9300JT
KX-T9300NL/KX-T9300NW/KX-T9300PD
KX-T9300PR/KX-T9300S/KX-T9301SL
KX-T9300SV/KX-T9300TR/KX-T9310DM
KX-T9310PD/KX-T9310S/KX-T9310SV
KX-T9320AR/KX-T9321SL

(for Europe areas)

KX-T9350BX/KX-T9390LA

(for Asia, Middle Near East and Other areas)

Please use this manual with the original service manual mentioned on next page.

↑ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

This supplement has been issued for relevancy; portable handset model No. on name plate and portable handset model No. on original service manual.

- 1. Although KX-T9300XXR/KX-T9310XXR/KX-T9320XXR are indicated as handset model No. on original Service Manual pointed by arrow in below Fig., KX-A78XX/KX-A362SL are indicated as handset model No. on name plate.
- As two types indications are same unit, when repairing handset, refer to original Service Manual shown in the Table-1 on next page of this supplement.

Example for Denmark:

Name Plate of Handset

Panasonic

Model: KX-A78DM

Kyushu Matsushita Electric Co; Ltd. Made in Japan PQGT12656ZA Cover of original Service Manual



(KX-T9300DMH)

(KX-T9300DMR)

Panasonic

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Portable Handset	Model No.	Country	Order No. of	Sup. No.
Model No. on Name Plate	on original S/M		original S/M	Sup. No.
KX-A78AR-1	KX-T9300AR	Austria	KM49604040A2	3
TOX TO GATE	KX-T9320AR	Austria	KM49609087C2	2
KX-A78BL	KX-T9300BL	Belgium	KM49606050C2	2
KX-A78DM	KX-T9300DM	Denmark	KM49602026C2	3
	KX-T9310DM	Denmark	KM49608080A2	3
KX-A78FL	KX-T9300FL	Finland	KM49603035A2	3
KX-A78HG	KX-T9300HG	Hungary	KM49611118A2	2
KX-A78NL	KX-T9300NL	Holland	KM49603039A2	3
KX-A78JT	KX-T9300JT	Italy	KM49603034A2	3
KX-A78NW	KX-T9300NW	Norway	KM49512018A2	3
KX-A78PD	KX-T9300PD	Poland	KM49609083A2	3
	KX-T9310PD	Poland	KM49610096A2	3
KX-A78PR	KX-T9300PR	Portugal	KM49610093A2	3
KX-A78S	KX-T9300S	Sweden	KM49511009C2	3
	KX-T9310S	Sweden	KM49606052C2	3
KX-A78SV	KX-T9300SV	Slovakia	KM49609082A2	3
	KX-T9310SV	Slovakia	KM49610094A2	3
KX-A78SL/KX-A362SL	KX-T9321SL	Switzerland	KM49612310S2	2
KX-A78G	KX-T9300TR	Turky	KM49612126A3	1
KX-A78BX	KX-T9350BX	Asia, Middle Near East	KM49601024C3	2
KX-A78LA	KX-T9390LA	and Other areas	KM49604042C3	2

(Table-1)

■ PARTS COMPARISON TABLE

Note: Below tables indicate part No. for multi. portable handset (KX-A78XX/KX-A362SL) that are for purchase by sales route of Panasonic.

Model No.: KX-A78AR-1

Ref. No.	F	Part No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		Implementation
ACCESSOR	IES				<u> </u>	<u> </u>
A1	·	PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11699Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	IATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12245Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78DM

Ref. No.	F	art No.	Part Name & Description	Pcs/	Remark	Implementation
Oriç	Original	Supplement	1	Set	I Tioman	Implementation
ACCESSOR	IES			1 001	1	
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11689Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
	MATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3	· 	PQPK12230Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78PD

Ref. No.	F	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement	7	Set		
ACCESSOR	IIES			· · · · · · · · · · · · · · · · · · ·		·
A1.		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11697Z	Instruction Book	1	Addition	From 1st Prod.
A3	****	PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS					
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12243Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1.	Addition	From 1st Prod.

Model No.: KX-A78S

Ref. No.	P	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		e de la companya de l
ACCESSOF	RIES					
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11688Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS			· · · · · · · · · · · · · · · · · · ·	27 - 2	
P1		PQPD10212Z	Pad	.1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	. 1	Addition	From 1st Prod.
P3		PQPK12229Y	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78SV

Ref. No.	Part No.		Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSOF	RIES				<u> </u>	
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11696Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING I	MATERIALS				***	Section 1
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12242Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A362SL

Ref. No.	P	art No.	Part Name & Description	Pcs/	Remark	Implementation
	Original	Supplement		Set		
ACCESSOR	IES				*	<u> </u>
A1		PQKC10003Z1	Belt Clip	1	Addition	From 1st Prod.
A2	·	PQQX11698Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z1	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS				•	
P1		PQPD10212Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10300Z	Inner Box	1	Addition	From 1st Prod.
P3		PQPK12244Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

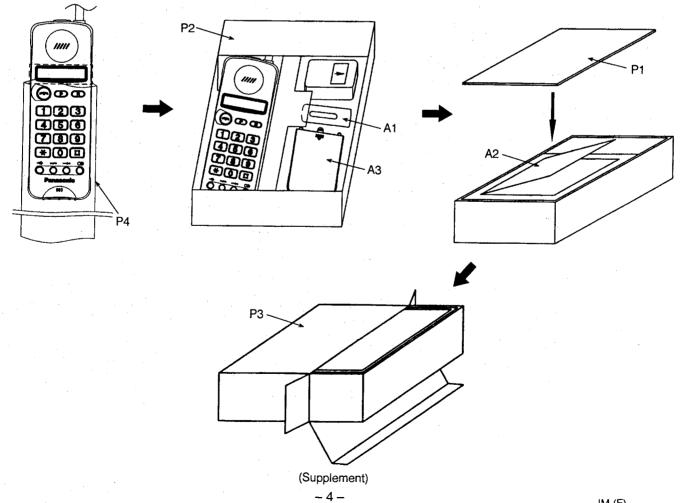
Model No.: KX-A78BX

Ref. No.	F	Part No.	Part Name & Description	Pcs/	Remark	Implementation
Orig	Original	Supplement		Set	Hemark	Implementation
ACCESSO	RIES				L	
A1		PQKC10003Z2	Belt Clip	1	Addition	From 1st Prod.
A2		PQQW11485Z	Instruction Book	1	Addition	From 1st Prod.
A3		PQKK10046Z2	Battery Cover	1	Addition	From 1st Prod.
	MATERIALS				<u> </u>	
P1		PQPD10316Z	Pad	1	Addition	From 1st Prod.
P2	·	PQPG10352Z	Inner Box	. 1	Addition	From 1st Prod.
P3		PQPK12113Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X15A04	Protection Cover	1	Addition	From 1st Prod.

Model No.: KX-A78LA

Ref. No.	Part No.		Part Name & Description	Pcs/	Remark	Implementation
	Original Supplement	1	Set	rioman	implementation	
ACCESSOF	RIES			1 000	<u> </u>	
A1		PQKC10003Z2	Belt Clip	1	Addition	From 1st Prod.
A2		PQQX11687Z	Instruction Book	1	Addition	From 1st Prod.
A3	·	PQKK10046Z2	Battery Cover	1	Addition	From 1st Prod.
PACKING N	MATERIALS			4	<u> </u>	
P1		PQPD10316Z	Pad	1	Addition	From 1st Prod.
P2		PQPG10352Z	Inner Box	1	Addition	From 1st Prod.
P3	·	PQPK12227Z	Gift Box	1	Addition	From 1st Prod.
P4		XZB10X25A02	Protection Cover	1	Addition	From 1st Prod.

■ ACCESSORIES AND PACKING MATERIALS



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